DOCTOR OF PHILOSOPHY

Late quaternary glaciation in Southwest Ireland

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Award date:
2004

Awarding institution:
Coventry University

Appendix i. Summarised rock weathering data

Test location	Grid Ref.	Alt (m)	Chpt. 4 map area	Mean R-value (*n* =25)	Mean horiz. Joint depth (cm) (*n* =15)	Mean vert. Joint depth (cm) (*n* =15)	Mean combined joint depth (cm) (*n* =30)	Joint frequency index number	Above / Below
R1 (Spur 1 R1)	V87200 83800	245	1	23.48	3.80	6.00	4.90	2	Below
R2 (Spur 1 R2)	V87764 83989	447	1	31.28	2.20	2.87	2.53	2	Below
R3 (Spur 1 R3)	V87750 83870	460	1	26.48	7.07	15.47	11.27	2	Below
R4 (Spur 1 R4)	V87959 84157	516	1	33.44	4.67	5.13	4.90	1	Below
R5 (Spur 1 R5)	V87971 84327	548	1	26.24	3.27	3.00	3.13	2	Below
R6 (Spur 1 R6)	V87955 84342	550	1	30.36	6.73	7.00	6.87	3	Below
R7 (Spur 1 R7)	V87988 84524	565	1	27.92	2.80	3.33	3.07	3	Below
R8 (Spur 1 R8)	V88300 84400	570	1	29.08	19.47	12.93	16.20	3	Below
R9 (Spur 1 R9)	V88350 84750	655	1	26.52	9.93	22.53	16.23	3	Above
R10 (Spur 1 R10)	V88330 84850	700	1	18.56	15.27	19.67	17.47	4	Above
R11 (Spur 1 R11)	V88350 84900	720	1	20.08	30.80	32.33	31.57	3	Above
R12 (Spur 1 R12)	V88600 85000	770	1	20.6	26.60	26.13	26.37	3	Above
R13 (Spur 1 R13)	V88445 85248	812	1	15.12	19.60	15.80	17.70	4	Above
R14	V87856 85411	480	1	32.24	1.73	2.93	1.94	2	Below
R15	V88400 86300	300	1	23.56	13.07	3.33	8.20	2	Below
R16	V88600 87500	440	1	33.28	-	-	-	1	Below
R17	V88800 87700	500	1	14.48	8.73	4.20	6.47	4	Above
R18	V89120 87520	568	1	21.16	13.47	13.27	13.37	3	Above
R19	V89400 87000	625	1	13.6	15.93	9.27	12.60	4	Above
R20	V89535 86985	735	1	14.52	22.87	15.80	19.33	4	Above
R21	V89389 86569	706	1	21.6	33.80	24.33	29.07	3	Above
R22	V89400 86400	695	1	20.56	14.33	8.20	11.27	4	Above
R23	V89450 86000	730	1	13	12.80	10.40	11.60	4	Above
R24	V90078 85100	548	2	33.68	5.73	2.67	3.85	2	Below
R25	V90115 85300	606	2	17	7.47	15.27	8.75	3	Above
R26	V90060 85700	750	2	16.72	18.80	11.20	12.13	4	Above
R27 (Spur 2 R1)	V86351 83427	284	2	28.88	5.20	3.73	4.47	2	Below
R28(Spur 2 R2)	V86871 83640	330	2	24.42	5.07	10.47	7.77	2	Below
R29(Spur 2 R3)	V86747 83646	390	2	30.64	4.47	25.00	14.73	2	Below
R30(Spur 2 R4)	V86588 83883	445	2	29.64	2.93	2.13	2.53	2	Below
R31(Spur 2 R5)	V86500 84000	445	2	29.6	2.53	4.73	3.63	2	Below

R32(Spur 2 R6)	V86500 83800	450	2	25.34	2.13	4.60	3.37	2	Below
R33(Spur 2 R7)	V86337 84358	468	2	28.28	1.73	3.87	2.80	1	Below
R34(Spur 2 R8)	V86171 84740	595	2	21.52	6.00	11.27	8.63	2	Below
R35	V86100 85103	590	2	31.32	4.87	8.67	6.77	2	Below
R36	V86119 84937	605	2	12.2	-	-	-	4	Above
R37(Spur 2 R9)	V86193 84972	611	2	10.64	17.67	9.47	13.57	4	Above
R38(Spur 2 R10)	V86200 85085	650	2	18.92	10.40	9.80	10.10	4	Above
R39 (Spur 2 R11)	V86244 85027	653	2	11.16	21.87	8.93	15.40	4	Above
R40 (Spur 2 R12)	V86250 85000	655	2	26.12	3.67	18.93	11.30	2	Above
R41	V85095 85380	641	2	30.3	3.67	2.20	2.93	3	Below
R42	V85411 85351	714	2	13.84	27.47	17.13	22.30	4	Above
R43	V85850 85553	729	2	13.64	19.20	19.93	19.57	4	Above
R44	V85800 85500	730	2	19.56	20.80	30.27	25.53	4	Above
R45 (Spur 3 R1)	V85500 83450	250	2	18.8	-	-	-	2	Below
R46 (Spur 3 R2)	V85350 83700	340	2	26.68	11.53	15.80	13.67	2	Below
R47 (Spur 3 R3)	V85330 83900	380	2	21.24	6.93	20.07	13.50	2	Below
R48 (Spur 3 R4)	V85100 84170	470	2	27.52	14.67	16.73	15.70	1	Below
R49 (Spur 3 R5)	V84750 84300	540	2	26.6	6.20	13.27	9.73	2	Below
R50 (Spur 3 R6)	V84606 84043	542	2	28.96	2.20	2.60	2.40	2	Below
R51 (Spur 3 R7)	V8512085210	620	2	22.16	3.93	2.60	3.27	3	Below
R52 (Spur 3 R8)	V84620 85150	750	2	10.92	19.93	24.80	22.37	3	Above
R53 (Spur 3 R9)	V84050 84900	870	2	26.6	32.20	28.73	30.47	3	Above
R54 (Spur 3 R10)	V84100 84600	900	2	31.2	13.53	23.33	18.43	3	Above
R55 (Spur 4 R1)	V84917 83028	425	2	29.44	4.20	2.07	3.13	2	Below
R56 (Spur 4 R2)	V84637 83341	545	2	26.56	1.93	2.53	2.23	2	Below
R57 (Spur 4 R3)	V84241 83511	592	2	24.12	2.00	1.53	1.77	2	Below
R58 (Spur 4 R4)	V84188 83586	609	2	12.68	19.20	21.80	20.50	4	Below
R59 (Spur 4 R5)	V84027 83721	685	2	13.96	19.87	10.87	15.37	3	Above
R60 (Spur 4 R6)	V83905 83778	749	2	14.72	21.93	24.60	23.27	3	Above
R61 (Spur 4 R7)	V83570 84207	983	2	11.96	26.27	26.40	26.33	4	Above
R62 (Spur 4 R8)	V83306 83784	968	2	12.2	23.67	30.60	27.13	4	Above
R63 (Spur 4 R9)	V83686 84352	969	2	14.2	22.07	21.00	21.53	4	Above
R64 (Spur 5 R1)	V83897 82494	320	2	26.8	2.67	2.27	2.47	2	Below
R65 (Spur 5 R2)	V83615 82576	445	2	29.8	1.80	4.07	2.93	2	Below
R66 (Spur 5 R3)	V83697 82480	409	2	30.24	2.73	5.20	3.97	2	Below
R67 (Spur 5 R4)	V83031 82539	540	2	29.48	2.80	6.13	4.47	2	Below

R68 (Spur 5 R5)	V83096 82451	560	2	23.2	3.47	4.07	3.77	2	Below
R69 (Spur 5 R6)	V82831 83034	725	2	15.68	11.73	12.33	12.03	4	Above
R70 (Spur 5 R7)	V82731 82966	734	2	23.38	17.00	16.07	16.53	3	Above
R71 (Spur 5 R8)	V82837 83220	823	2	11.88	19.47	22.07	20.77	4	Above
R72 (Spur 5 R9)	V82563 83356	914	2	10	16.40	22.47	19.43	4	Above
R73	V82170 85700	260	2	29.4	10.47	13.00	11.73	2	Below
R74	V82100 84920	340	2	24.18	9.73	12.00	10.87	2	Below
R75	V82570 83950	530	2	30.95	6.60	12.00	9.30	1	Below
R76	V81950 84200	350	2	23.14	5.40	6.80	6.10	2	Below
R77	V81670 84400	320	2	22.62	6.47	8.07	7.27	2	Below
R78	V86638 88350	440	2	11.6	25.87	26.67	26.27	3	Above
R79 (Spur 7 R1)	V76570 85026	304	3	28.88	3.20	3.73	3.47	2	Below
R80 (Spur 7 R2)	V77547 84008	501	3	32.72	2.60	5.47	4.03	2	Below
R81 (Spur 7 R3)	V77678 83897	519	3	30.56	2.73	1.67	2.20	1	Below
R82 (Spur 7 R4)	V77661 84015	543	3	11.2	24.13	20.20	22.17	3	Above
R83 (Spur 7 R5)	V77877 84328	677	3	15.04	23.00	29.47	26.23	4	Above
R84 (Spur 7 R6)	V78538 84277	837	3	10.52	26.87	20.67	23.77	4	Above
R85 (Spur 7 R7)	V78841 83711	882	3	9.72	20.27	16.07	18.17	4	Above
R86 (Spur 7 R8)	V78841 84216	935	3	13.68	25.13	20.93	23.03	4	Above
R87 (Spur 6 R1)	V77728 82501	380	3	31.04	4.27	1.73	3.00	2	Below
R88 (Spur 6 R2)	V78090 82616	542	3	31.16	2.00	2.73	2.37	1	Below
R89 (Spur 6 R3)	V78150 82630	643	3	28.52	3.20	2.93	3.07	2	Below
R90 (Spur 6 R4)	V78225 82699	656	3	29.48	2.40	6.60	4.50	3	Below
R91 (Spur 6 R5)	V78250 82670	663	3	24	4.27	3.53	3.90	3	Below
R92 (Spur 6 R6)	V78272 82725	671	3	19.48	4.73	14.07	9.40	4	Above
R93 (Spur 6 R7)	V78350 82740	698	3	9.96	22.13	12.60	17.37	4	Above
R94 (Spur 6 R8)	V78574 83252	782	3	10.72	19.93	12.07	16.00	4	Above
R95 (Spur 6 R9)	V78735 83579	836	3	14.92	9.20	28.87	19.03	4	Above
R96 (Spur 6 R10)	V79021 83831	908	3	11.72	7.80	6.47	7.13	4	Above
R97	V77942 85850	543	3	13.72	14.93	19.07	17.00	3	Above
R98	V78771 87561	574	3	15.28	7.00	3.07	5.03	3	Above
R99	V78187 85995	683	3	11.48	29.27	34.40	31.83	4	Above
R100	V78576 85930	744	3	14.24	26.07	23.67	24.87	4	Above
R101	V79085 85990	824	3	13.6	22.07	27.20	24.63	4	Above
R102	V79633 85863	850	3	13.04	27.67	24.27	25.97	4	Above
R103	V80067 85158	969	3	14.92	29.13	17.13	23.13	4	Above

R104	80001 84978	1048	3	15.12	32.13	30.67	31.40	4	Above
R105	V82090 85865	379	3	32.08	4.07	7.80	5.93	2	Below
R106	V81699 85449	490	3	28.2	4.27	6.33	5.30	2	Below
R107	V82070 85920	431	3	14.16	11.73	17.53	14.63	3	Above
R108	V81973 85971	506	3	13.55	24.67	29.33	27.00	4	Above
R109	V81287 86056	719	3	11.36	17.73	10.67	14.20	4	Above
R110	V81232 85655	793	3	13.44	23.67	21.47	22.57	4	Above
R111	V81610 85400	558	3	14.32	18.13	16.07	17.10	4	Above
R112	V82050 80050	500	4	20.78	4.93	5.00	4.97	2	Below
R113	V81115 79375	504	4	28.84	6.40	7.73	7.07	2	Below
R114	V81700 79600	550	4	29.28	10.07	6.53	8.30	2	Below
R115	V80200 79000	550	4	32.48	7.27	2.87	5.07	2	Below
R116	V82205 79893	559	4	31.28	5.27	4.60	4.93	3	Below
R117	V80464 79176	574	4	31.36	5.87	9.80	7.83	2	Below
R118	V79900 79000	600	4	27.84	-	-	-	1	Below
R119	V80947 80927	420m	4	30.32	2.20	2.60	2.40	2	Below
R120	V81200 81400	520	4	30.32	3.20	3.47	3.33	2	Below
R121	V80950 81400	550	4	13.6	4.80	9.47	7.13	4	Below
R122	V80076 81010	571	4	31.8	2.87	5.87	4.37	2	Below
R123	V79610 80581	580	4	32.72	2.20	2.20	2.20	1	Below
R124	V80085 81365	677	4	10.84	14.53	15.07	14.80	4	Above
R125	V80139 81191	607	4	10.8	30.33	25.07	27.70	4	Above
R126	V76906 79078	565	4	33.96	3.27	5.60	4.43	2	Below
R127	V77187 79060	536	4	30.84	2.73	3.27	3.00	2	Below
R128	V77800 78920	663	4	12.24	2.00	2.00	2.00	4	Below
R129	V78050 78800	635	4	27.16	5.80	9.40	7.60	3	Below
R130	V78492 79309	698	4	29.72	2.60	7.00	4.80	3	Below
R131	V78652 79462	770	4	10.32	14.07	9.27	11.67	4	Above
R132	V78750 79500	770	4	16.24	-	-	-	3	Above
R133	V82050 80050	500	4	22.168	9.76	2.67	6.21	2	Below
R134	V79116 80472	645	4	10.92	20.93	21.87	21.40	4	Above
R135	V80151 76984	466	4	26.4	2.13	5.73	3.93	2	Below
R136	V79823 76724	637	4	26.72	3.93	8.27	6.10	3	Below
R137	V79760 76785	640	4	18.16	6.13	5.67	5.90	4	Below
R138	V74650 77050	420m	6	21.08	1.67	8.87	3.84	2	Below
R139	V72900 75100	520m	6	30.52	3.13	2.33	2.24	2	Below

R140	V74600 77480	580m	6	25.1	3.07	13.20	6.06	2	Below
R141	V74800 77400	580m	6	24.68	2.33	13.00	5.71	2	Below
R142	V73414 77104	590m	6	32.4	1.80	2.20	1.59	2	Below
R143	V74450 77300	600m	6	24.08	-	-	-	1	Below
R144	V72881 75596	610m	6	18.32	14.00	7.13	8.64	4	Above
R145	V72787 75579	639m	6	10.04	23.87	19.93	17.19	4	Above
R146	V74200 77200	660m	6	28.76	-	-	-	2	Below
R147	V73970 772585	740m	6	20.8	3.60	11.27	5.76	3	Above
R148	V72569 76612	749m	6	12.16	10.80	20.93	11.78	4	Above
R149	V73850 77290	750m	6	29.48	7.53	21.93	12.59	3	Above
R150	W00955 82400	540	5	27.08	1.80	8.13	4.97	3	Below
R151	W01300 82180	592	5	31.44	1.13	2.60	1.87	2	Below
R152	V96552 79375	604	5	32.72	2.00	6.93	4.47	2	Below
R153	W00961 82320	604	5	30	3.00	1.93	2.47	2	Below
R154	V97578 79706	616	5	28.4	1.80	4.27	3.03	2	Below
R155	V96937 79709	643	5	31.48	3.00	5.60	4.30	2	Below
R156	V97525 81700	670	5	22.64	-	-	-	1	Below
R157	V98200 81400	720	5	27.4	9.73	11.20	10.47	3	Below
R158	W00850 82200	688	5	12.04	30.13	28.67	29.40	4	Above
R159	V98300 81350	720	5	16.76	7.40	18.47	12.93	4	Above
R160	V98090 80071	749	5	15.52	16.33	18.93	17.63	4	Above
R161	V98478 81950	776	5	13.64	16.40	12.20	14.30	4	Above
R162	V97950 80600	830	5	17.16	-	-	-	2	Above

Appendix ii. Summarised soil data

Soil sample	Chpt. 4 map area	Grid ref.	Altitude (m)	Depth (cm)	Above / Below
ss1	5	V98511 84351	236	52	Below
ss2	5	V98464 83379	395	102	Below
ss3	5	V98200 82450	615	67	Below
ss4	5	V98455 81945	780	42	Above
ss5	5	V98200 81300	735	74	Below
ss6	5	V98094 80960	830	111	Above
ss7	6	V73300 85200	530	95	Below
ss8	6	V72509 76482	752	72	Above
ss9	6	V73800 77350	770	59	Above
ss10	1	V88564 87785	470	66	Above
ss11	1	V89053 87600	560	59	Above
ss13	1	V88073 83700	374	82	Below
ss14	1	V87988 84524	565	102	Below
ss15	1	V89515 85449	564	62	Below
ss16	4	V81200 81400	520	95	Below
ss17	4	V80300 81450	740	64	Above
ss18	4	V79941 80782	520	68	Below
ss19	4	V78790 79950	722	26	Above
ss20 (spur 7 s5)	3	V78391 84168	807	54	Above
ss21 (spur 6 s4)	3	V78821 83381	832	56	Above
ss22 (spur 6 s1)	3	V77686 82593	527	55	Below
ss23 (spur 2 s1)	2	V86451 84273	450	114	Below
ss24 (spur 2 s2)	2	V86450 84283	463	135	Below
ss25 (spur 2 s3)	2	V86167 84786	576	36	Below
ss26 (spur 2 s4)	2	V86199 84837	605	62	Above
ss27 (spur 2 s5)	2	V86244 85227	660	38	Above
ss28	2	V85667 85426	720	46	Above
ss29	2	V85121 85166	644	32	Below
ss30 (spur 4 s1)	2	V84932 83010	418	41	Below
ss31 (spur 4 s2)	2	V84541 83411	562	47	Below
ss32 (spur 4 s3)	2	V84311 83494	591	63	Below
ss33 (spur 4 s4)	2	V84061 83699	673	42	Above
ss34 (spur 4 s5)	2	V83712 84110	865	57	Above
ss35 (spur 4 s7)	2	V83570 84207	983	39	Above
ss36 (spur 4 s6)	2	V83420 83816	954	32	Above
ss37 (spur 3 s4)	2	V83596 84383	980	38	Above
ss38 (spur 3 s3)	2	V84332 84390	756	40	Above
ss38a (spur 3 s1)	2	V85250 83670	380	78	Below
ss39 (spur 3 s2)	2	V84606 83943	542	63	Below
ss40 (spur 5 s1)	2	V83897 82494	320	17	Below
ss41 (spur 5 s2)	2	V83364 82568	518	35	Below
ss42 (spur 5 s5)	2	V83079 82421	562	73	Below
ss43 (spur 5 s6)	2	V82701 82916	730	33	Above
ss44 (spur 5 s4)	2	V83043 82547	547	66	Below
ss45	3	V78374 85940	714	41	Above
ss46	3	V78946 86007	782	32	Above
ss47(spur 7 s2)	3	V77609 84801	509	68	Below
ss48(spur 7 s3)	3	V77877 84305	666	45	Above
ss49(spur 7 s4)	3	V78406 84195	805	72	Above
ss49a (spur 7 s7)	3	79036 83971V	964	29	Above
ss49b (spur 7 s6)	3	V79036 83971	960	52	Above
ss50 (spur 6 s5)	3	V79021 83831	908	35	Above

ss51 (spur 6 s3)	3	V78835 83579	826	18	Above
ss52 (spur 6 s2)	3	V78172 82825	669	31	Below
ss53	4	V76199 78775	425	58	Below
ss54	4	V77174 79137	525	55	Below
ss55	4	V77773 78527	650	124	Below
ss56	4	V78150 78789	638	69	Below
ss57	4	V78727 79428	778	89	Above
ss58	1	V92112 86771	363	69	Below
ss59	1	V92067 86580	479	59	Above
ss60	1	V91650 86205	565	94	Above
ss61	1	V91740 86623	470	38	Above
ss62 (spur 1 s2)	1	V87594 83906	385	72	Below
ss63 (spur 1 s4)	1	V88159 84612	570	72	Below
ss64 (spur 1 s5)	1	V88175 84891	650	67	Above
ss65 (spur 1 s6)	1	V88280 84958	681	52	Above
ss66 (spur 1 s8)	1	V88409 85168	797	94	Above
sm1	5	V97604 79723	620	39	Below
sm2	5	V97722 80071	710	76	Above
sm3	5	V97876 80368	760	103	Above
sst1	5	W00808 82200	686	74	Above
sst2	5	W01260 82164	596	64	Below
sct1	3	V86800 83720	739	87	Above
ss201	3	V77955 85889	526	56	Above
ss202	3	V79633 85863	850	40	Above
ss203	3	V80001 84978	944	29	Above
ss204	3	V80355 804417	1038	65	Above
ss205	3	V80179 84143	956	72	Above
ss206 (spur 7 s1)	3	V76650 86670	285	54	Below
ss207	4	V80695 78740	471	62	Below
ss208	4	V80465 79176	564	68	Below
ss209	4	V81579 79373	583	62	Below
ss210	3	V81400 86068	675	79	Above
ss211 (spur 1 s7)	1	V88489 85079	787	63	Above
ss212 (spur 5 s3)	2	V83031 82539	540	62	Below
ss213 (spur 5 s7)	2	V82793 83192	829	49	Above
ss214 (spur 5 s8)	2	V82594 83366	915	42	Above
ss215	2	V86627 88243	444	82	Above

Appendix iii. Summarised magnetic data

Soil Sample	Xlf	Xarm [40uT]	SIRM [+0.8T]	SIRM/arm	Soft IRM [00.2/0.88]	Hard IRM [0.88-0.3/0.88]	Ab./Bel.
	um^3/kg^{-1}	um^3/kg^{-1}	mAm^2/kg^{-1}	kAm^{-1}	mAm^2/kg^{-1}	mAm^2/kg^{-1}	
ss1	0.09674	0.57314	1.44223	2.51637	0.06221	0.29973	Below
ss2	0.12535	0.69683	2.85733	4.10048	0.05763	0.26759	Below
ss3	0.12487	0.88271	3.86264	4.37586	0.04473	0.28564	Below
ss4	0.15504	1.29196	1.64456	1.27292	0.30818	0.10087	Above
ss5	0.08750	0.50395	0.62808	1.24631	0.05593	0.31267	Below
ss6	0.09968	0.76704	1.69467	2.20937	0.17409	0.21987	Above
ss7	0.06564	0.07851	0.10328	1.31550	0.14214	0.33245	Below
ss8	0.22669	2.19060	7.85671	3.58656	0.09130	0.21362	Above
ss9	0.06106	1.31379	3.20568	2.44003	0.03586	0.34720	Above
ss10	0.04714	0.17398	0.64095	3.68406	0.06867	0.39978	Above
ss11	0.06360	0.38840	2.11419	5.44341	0.03110	0.55568	Above
ss13	0.06653	0.70882	1.88689	2.66203	0.04859	0.28107	Below
ss14	0.06339	0.50391	0.46982	0.93235	0.08599	0.24316	Below
ss15	0.10990	0.86429	3.94293	4.56207	0.06735	0.28130	Below
ss16	0.05092	0.40942	0.63350	1.54731	0.11195	0.24055	Below
ss17	0.04721	0.12961	0.27987	2.15928	0.11089	0.31862	Above
ss18	0.04914	0.18369	0.94917	5.16718	0.06671	0.39165	Below
ss19	0.05500	0.28092	0.93216	3.31821	0.08267	0.35132	Above
ss20 (spur 7 ss5)	0.05141	1.01754	5.93439	5.83210	0.01125	0.57120	Above
ss21 (spur 6 ss4)	0.08623	0.58553	3.63897	6.21487	0.04273	0.37405	Above
ss22 (spur 6 ss1)	0.06768	0.07609	0.14816	1.94718	0.10569	0.31320	Below
ss23 (spur 2 ss1)	0.02109	0.07709	0.13009	1.68762	0.10980	0.33055	Below
ss24 (spur 2 ss2)	0.03476	0.06665	0.13368	2.00573	0.24618	0.16823	Below
ss25 (spur 2 ss3)	0.04962	0.09648	0.16759	1.73711	0.09378	0.34239	Below
ss26 (spur 2 ss4)	0.09465	2.31170	5.46699	2.36493	0.10213	0.21793	Above
ss27 (spur 2 ss5)	0.15453	1.58182	7.51467	4.75066	0.03116	0.37212	Above
ss28	0.07966	2.71345	6.02513	2.22047	0.03978	0.32296	Above
ss29	0.12206	0.73982	3.22848	4.36387	0.06405	0.32814	Below
ss30 (spur 4 ss1)	0.02534	0.06350	0.12808	2.01705	0.19256	0.24884	Above
ss31 (spur 4 ss2)	0.03825	0.06957	0.16271	2.33884	0.34453	0.08777	Below
ss32 (spur 4 ss3)	0.04493	0.07279	0.19404	2.66586	0.16922	0.27821	Below
ss33 (spur 4 ss4)	0.09193	1.15637	5.16716	4.46844	0.05217	0.34822	Below
ss34 (spur 4 ss5)	0.09184	1.99491	4.95957	2.48611	0.14231	0.28032	Below
ss35 (spur 4 ss7)	0.08992	0.57097	3.30493	5.78826	0.01724	0.48291	Above
ss36 (spur 4 ss6)	0.05459	1.34643	7.77306	5.77311	0.01620	0.38812	Above
ss37 (spur 3 ss4)	0.16068	1.17967	5.04707	4.27839	0.08367	0.29935	Above
ss38 (spur 3 ss3)	0.05523	0.29325	0.78887	2.69010	0.06331	0.38521	Above
ss38a (spur 3 ss1)	0.03032	0.23172	0.36042	1.55540	0.05349	0.38475	Below
ss39 (spur 3 ss2)	0.03143	0.05716	0.06732	1.17764	0.19867	0.24630	Above
ss40 (spur 5 ss1)	0.05912	0.05977	0.08289	1.38672	0.25751	0.11815	Above
ss41 (spur 5 ss2)	0.05357	0.12381	0.34809	2.81156	0.14734	0.22333	Below
ss42 (spur 5 ss5)	0.07578	0.20667	0.33481	1.62004	0.22962	0.12520	Below
ss43 (spur 5 ss6)	0.32631	4.28084	9.87189	2.30607	0.17376	0.14156	Below
ss44 (spur 5 ss4)	0.03488	0.07218	0.09995	1.38469	0.16622	0.21717	Below
ss45	0.05541	0.55133	1.68167	3.05022	0.04429	0.37991	Above
ss46	0.11046	1.35835	6.79232	5.00041	0.02873	0.40149	Below
ss47(spur 7 ss2)	0.05195	0.08166	0.16896	2.06914	0.26108	0.18396	Above
ss48(spur 7 ss3)	0.08466	0.69918	4.81707	6.88956	0.01129	0.43487	Above
ss49(spur 7 ss4)	0.03539	0.29906	0.88153	2.94764	0.02888	0.46990	Above
ss49a (spur 7 ss7)	0.13194	1.01297	3.27032	3.22844	0.08074	0.33206	Above

ss49b (spur 7 ss6)	0.08753	0.88003	4.96412	5.64083	0.03071	0.44181	Above
ss50 (spur 6 ss5)	0.13543	2.13772	4.82722	2.25811	0.11285	0.22595	Above
ss51 (spur 6 ss3)	0.06696	1.16101	3.75082	3.23066	0.02685	0.54100	Above
ss52 (spur 6 ss2)	0.05434	0.08796	0.59737	6.79168	0.05023	0.75753	Above
ss53	0.03383	0.51282	0.65580	1.27882	0.05768	0.25660	Above
ss54	0.03708	0.15310	0.16210	1.05875	0.23151	0.18535	Below
ss55	0.15138	1.75980	5.48256	3.11544	0.09253	0.27169	Below
ss56	0.02949	0.07319	0.09558	1.30598	0.13131	0.21040	Below
ss57	0.06346	0.19789	0.53899	2.72368	0.11757	0.26464	Below
ss58	0.05489	0.29647	1.55874	5.25772	0.01817	0.39913	Below
ss59	0.06247	0.65620	3.23904	4.93609	0.02442	0.40976	Above
ss60	0.08899	0.50329	1.97974	3.93359	0.06974	0.22401	Below
ss61	0.03129	0.09224	0.16355	1.77315	0.13407	0.23687	Above
ss62 (spur 1 ss2)	0.22906	12.68518	14.81302	1.16774	0.23320	0.01817	Above
ss63 (spur 1 ss4)	0.06862	0.15604	0.19700	1.26254	0.13427	0.20900	Below
ss64 (spur 1 ss5)	0.17170	1.75614	5.57740	3.17595	0.12531	0.14957	Below
ss65 (spur 1 ss6)	0.10004	0.66080	2.57923	3.90320	0.08865	0.21031	Below
ss66 (spur 1 ss8)	0.07303	0.70659	1.31118	1.85563	0.18152	0.09370	Above
sm1	0.05299	0.06475	0.08164	1.26076	0.23485	0.08630	Below
sm2	0.05842	0.08390	0.09325	1.11146	0.22155	0.05777	Above
sm3	0.04689	0.05988	0.05554	0.92750	0.21469	0.07917	Above
sst1	0.08907	0.04510	0.03009	0.66720	0.19039	0.12110	Above
sst2	0.05107	0.10342	0.19585	1.89387	0.30190	0.01227	Below
sct1	0.07150	1.15147	5.71304	4.96153	0.01361	0.39980	Above
ss201	0.11012	0.73862	5.67237	7.67972	0.03208	0.44178	Above
ss202	0.07868	0.38775	3.39501	8.75564	0.03237	0.43127	Above
ss203	0.23057	2.68229	11.80999	4.40295	0.06497	0.41960	Above
ss204	0.10073	0.55099	1.87877	3.40978	0.08850	0.29893	Above
ss205	0.13538	0.99540	5.27236	5.29671	0.05893	0.32643	Above
ss206 (spur 7 ss1)	0.20894	2.07628	7.62789	3.67382	0.08711	0.30638	Below
ss207	0.05305	1.01412	1.36613	1.34711	0.07313	0.20126	Below
ss208	0.05470	0.09829	0.29629	3.01446	0.24908	0.10172	Below
ss209	0.02885	0.05222	0.18304	3.50490	0.22675	0.04444	Below
ss210	0.09020	0.73823	5.03322	6.81797	0.02866	0.40457	Above
ss211 (spur 1 ss7)	0.12566	0.91143	6.27684	6.88679	0.04022	0.36785	Above
ss212 (spur 5 ss3)	0.28482	2.19491	8.07746	3.68008	0.10060	0.25669	Below
ss213 (spur 5 ss7)	0.20447	1.14880	5.35834	4.66431	0.09400	0.13309	Above
ss214 (spur 5 ss8)	0.10549	0.61301	5.72208	9.33436	0.05375	0.37315	Above
ss215	0.04873	0.20347	0.60911	2.99356	0.13424	0.22623	Above

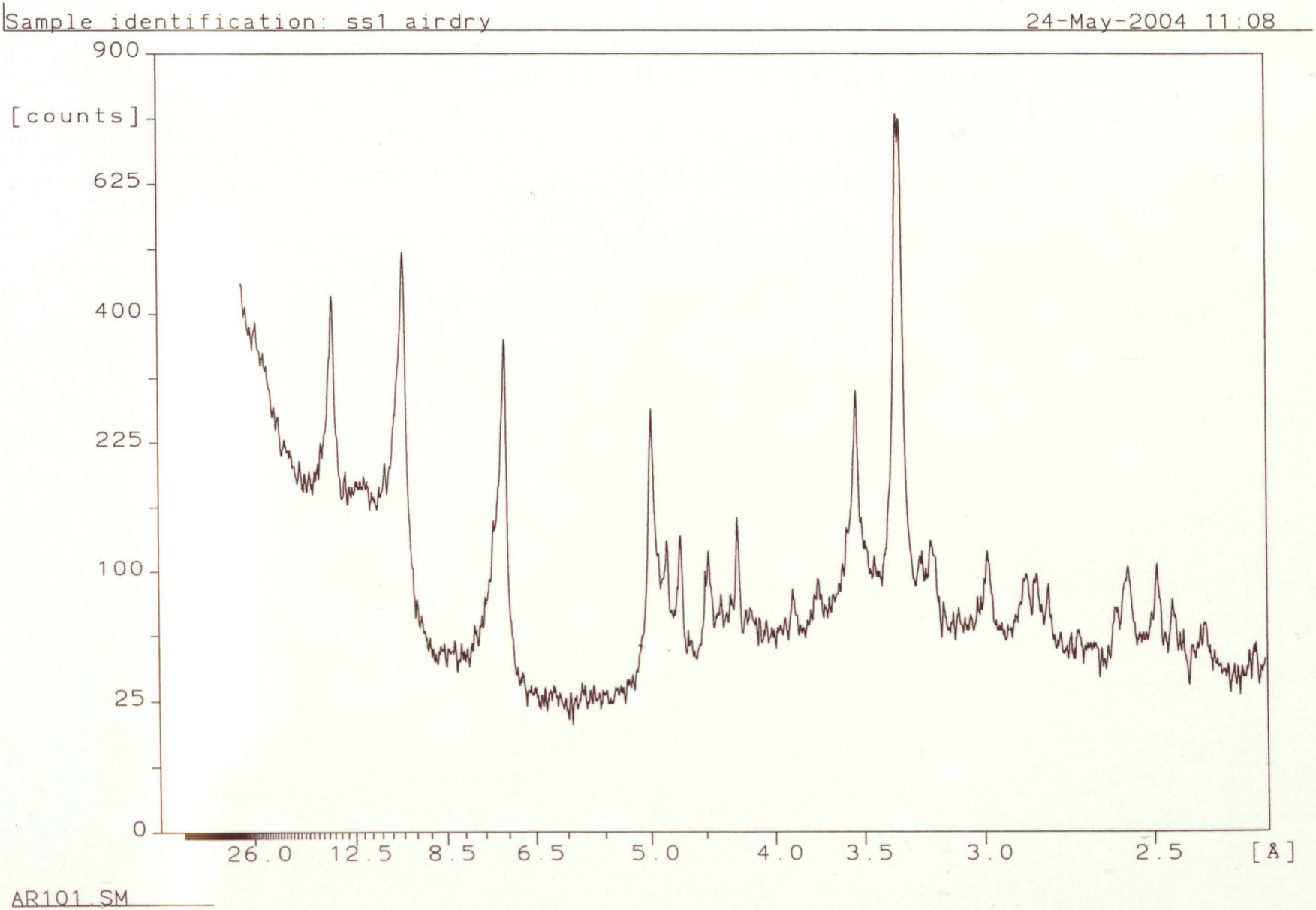
Appendix iv. Summarised results from XRD

Minerals	I/M	Q	F	C/V/S	K	L	G	Go	H	Above / Below
Soil sample	**an x indicates that the listed mineral is present**									
ss1	x	x	x	x	x	-	x	-	-	Below
ss2	x	x	x	x	x	-	x	-	-	Below
ss3	x	x	x	x	-	-	x	-	-	Below
ss4	x	x	x	x	-	x	-	-	-	Above
ss5	x	x	x	x	-	x	-	-	-	Below
ss6	x	x	x	-	x	-	x	-	-	Above
ss7	x	x	x	x	x	-	-	-	-	Below
ss8	x	x	x	-	x	x	-	-	-	Above
ss9	x	x	x	x	-	x	-	-	-	Above
ss10	x	x	x	-	x	x	-	-	-	Above
ss11	x	x	x	x	x	x	x	x	-	Above
ss13	x	x	x	x	-	-	-	-	-	Below
ss14	x	x	x	x	-	-	-	-	-	Below
ss15	x	x	x	x	x	-	x	-	x	Below
ss16	x	x	x	x	-	-	-	-	-	Below
ss17	x	x	x	-	x	x	-	-	-	Above
ss18	x	x	x	x	-	-	-	-	-	Below
ss19	x	x	x	-	-	x	-	x	-	Above
ss20 (spur 7 s5)	x	x	x	x	x	x	-	x	-	Above
ss21 (spur 6 s4)	x	x	x	x	x	x	x	-	-	Above
ss22 (spur 6 s1)	x	x	x	x	-	-	-	-	-	Below
ss23 (spur 2 s1)	x	x	x	x	x	-	-	-	-	Below
ss24 (spur 2 s2)	x	x	x	x	-	-	-	-	-	Below
ss25 (spur 2 s3)	x	x	x	x	x	-	-	-	-	Below
ss26 (spur 2 s4)	x	x	x	-	-	x	-	x	-	Above
ss27 (spur 2 s5)	x	x	x	x	x	x	-	-	x	Above
ss28	x	x	x	-	-	-	-	-	-	Above
ss29	x	x	x	x	-	-	-	-	-	Below
ss30 (spur 4 s1)	x	x	x	x	x	-	-	-	-	Below
ss31 (spur 4 s2)	x	x	x	-	-	-	-	-	-	Below
ss32 (spur 4 s3)	x	x	x	x	-	-	-	-	-	Below
ss33 (spur 4 s4)	x	x	x	-	x	-	-	-	-	Above
ss34 (spur 4 s5)	x	x	x	x	x	-	-	-	-	Above
ss35 (spur 4 s7)	x	x	x	x	-	x	-	x	-	Above
ss36 (spur 4 s6)	x	x	x	x	-	x	-	-	x	Above
ss37 (spur 3 s4)	x	x	x	x	x	x	-	-	-	Above
ss38 (spur 3 s3)	x	x	x	-	x	x	-	-	-	Above
ss38a (spur 3 s1)	x	x	x	x	x	-	-	-	-	Above
ss39 (spur 3 s2)	x	x	x	x	x	-	-	-	-	Below
ss40 (spur 5 s1)	x	x	x	-	x	-	-	-	-	Below
ss41 (spur 5 s2)	x	x	x	-	-	-	-	-	-	Below
ss42 (spur 5 s5)	x	x	x	-	-	-	-	-	-	Below
ss43 (spur 5 s6)	x	x	x	-	x	x	-	-	-	Above
ss44 (spur 5 s4)	x	x	x	-	-	-	-	-	-	Below
ss45	x	x	x	-	-	-	-	-	-	Above
ss46	x	x	x	x	-	x	-	-	x	Above
ss47(spur 7 s2)	x	x	x	x	x	-	x	-	-	Below
ss48(spur 7 s3)	x	x	x	x	x	x	x	x	-	Above
ss49(spur 7 s4)	x	x	x	x	x	x	-	-	-	Above
ss49a (spur 7 s7)	x	x	x	-	x	x	-	-	-	Above
ss49b (spur 7 s6)	x	x	x	x	-	x	-	-	x	Above

ss50 (spur 6 s5)	x	x	x	-	x	-	-	-	-	Above
ss51 (spur 6 s3)	x	x	x	x	x	x	x	x	-	Above
ss52 (spur 6 s2)	x	x	x	x	-	-	-	-	-	Below
ss53	x	x	x	x	-	-	-	-	-	Below
ss54	x	x	x	x	-	-	-	-	-	Below
ss55	x	x	x	x	x	-	-	-	-	Below
ss56	x	x	x	x	x	-	x	-	-	Below
ss57	x	x	x	-	x	x	x	-	-	Above
ss58	x	x	x	x	x	x	-	x	-	Below
ss59	x	x	x	-	x	-	-	-	-	Above
ss60	x	x	x	-	x	-	-	-	x	Above
ss61	x	x	x	-	x	x	-	-	-	Above
ss62 (spur 1 s2)	x	x	x	x	x	-	-	-	-	Below
ss63 (spur 1 s4)	x	x	x	x	x	-	-	-	-	Below
ss64 (spur 1 s5)	x	x	x	x	x	-	-	-	-	Above
ss65 (spur 1 s6)	x	x	x	x	-	x	x	-	x	Above
ss66 (spur 1 s8)	x	x	x	-	x	-	-	-	-	Above
sm1	x	x	x	x	x	-	x	-	-	Below
sm2	x	x	x	x	x	-	x	-	-	Above
sm3	x	x	x	x	x	-	x	-	-	Above
sst1	x	x	x	x	x	-	-	-	-	Above
sst2	x	x	x	x	-	-	-	-	-	Below
sct1	x	x	x	x	-	-	-	-	-	Above
ss201	x	x	x	x	-	x	-	-	-	Above
ss202	x	x	x	x	x	x	x	x	-	Above
ss203	x	x	x	x	x	-	-	x	-	Above
ss204	x	x	x	x	x	x	x	-	-	Above
ss205	x	x	x	x	-	-	x	-	-	Above
ss206 (spur 7 s1)	x	x	x	x	-	-	-	-	-	Below
ss207	x	x	x	x	-	-	-	-	-	Below
ss208	x	x	x	x	-	-	-	-	-	Below
ss209	x	x	x	-	-	-	-	-	-	Below
ss210	x	x	x	x	x	x	x	-	x	Above
ss211 (spur 1 s7)	x	x	x	x	x	x	x	-	x	Above
ss212 (spur 5 s3)	x	x	x	-	x	x	-	-	-	Below
ss213 (spur 5 s7)	x	x	x	x	x	-	x	-	-	Above
ss214 (spur 5 s8)	x	x	x	-	x	-	-	x		Above
ss215	x	x	x	-	-	-	-	-	-	Above

KEY I/M = illite / mica, Q = quartz, F = feldspa, C/V/S = chlorite / vermiculite / smectite, K = kaolinite, L = lepidocrocite, G = gibbsite, Go = goethite, H = hematite

Traces are also shown for 4 samples that have been subject to auxiliary treatments (ss30, ss47, ss50 and sct1). These involved treatment with ethylene glycol and also heat treatments to 300 and 500°C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6.5
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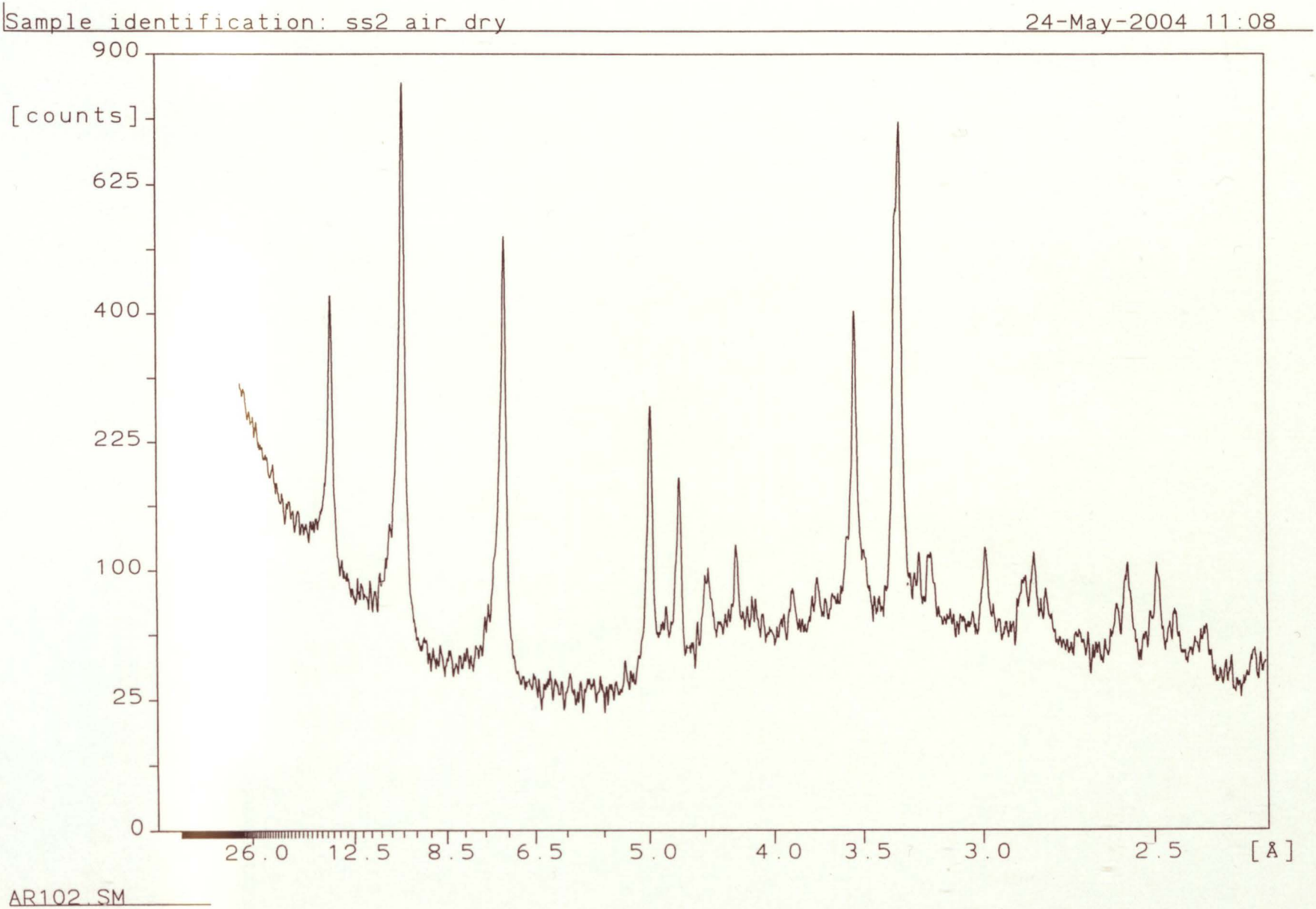
4.0
3.5
3.0
2.5
[Å]
AR101.SM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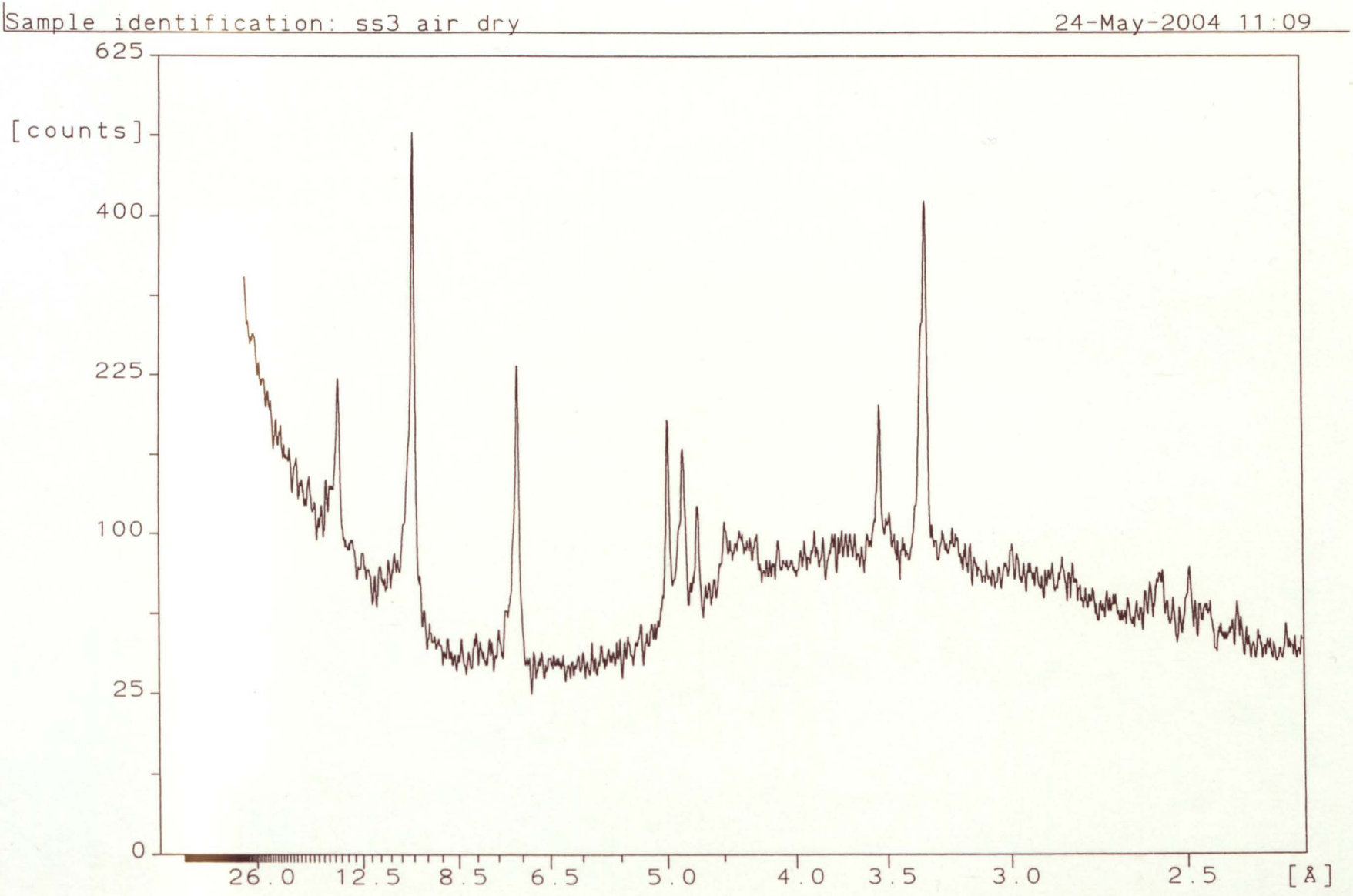
AR102.SM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3.5
3.0
2.5
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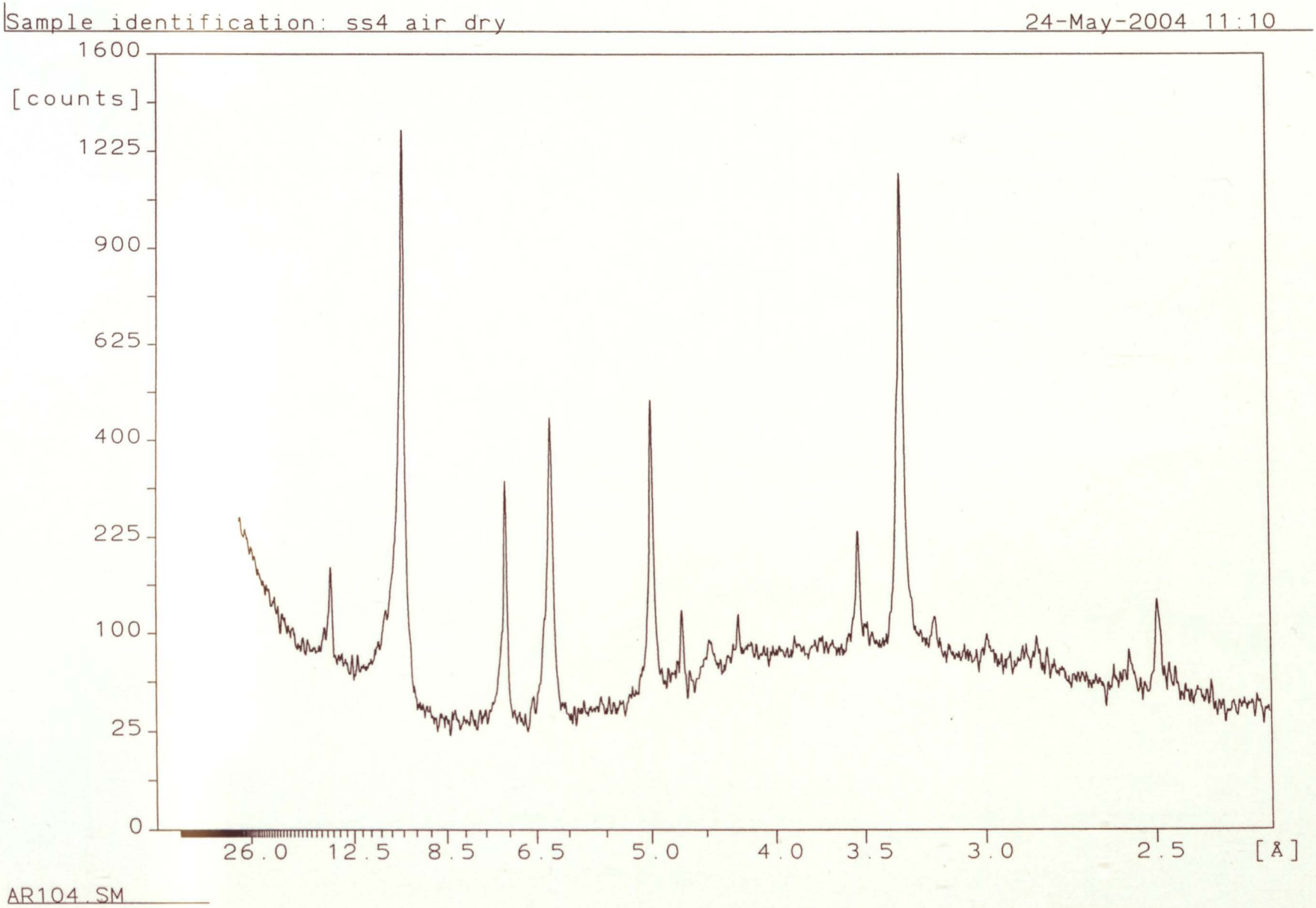
AR103.SM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5.0
4.0
3.5
3.0
2.5
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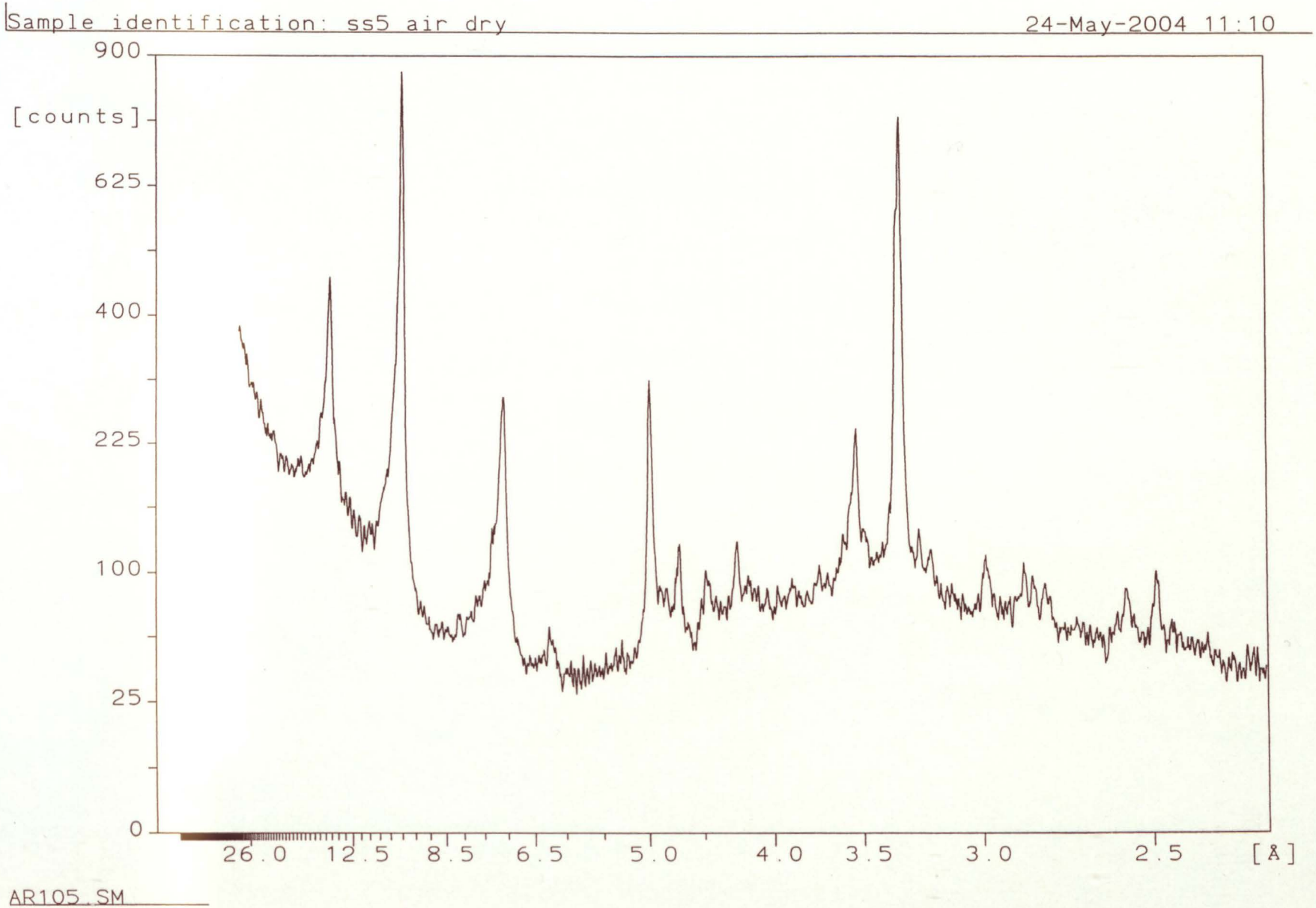
AR104.SM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3.0
2.5
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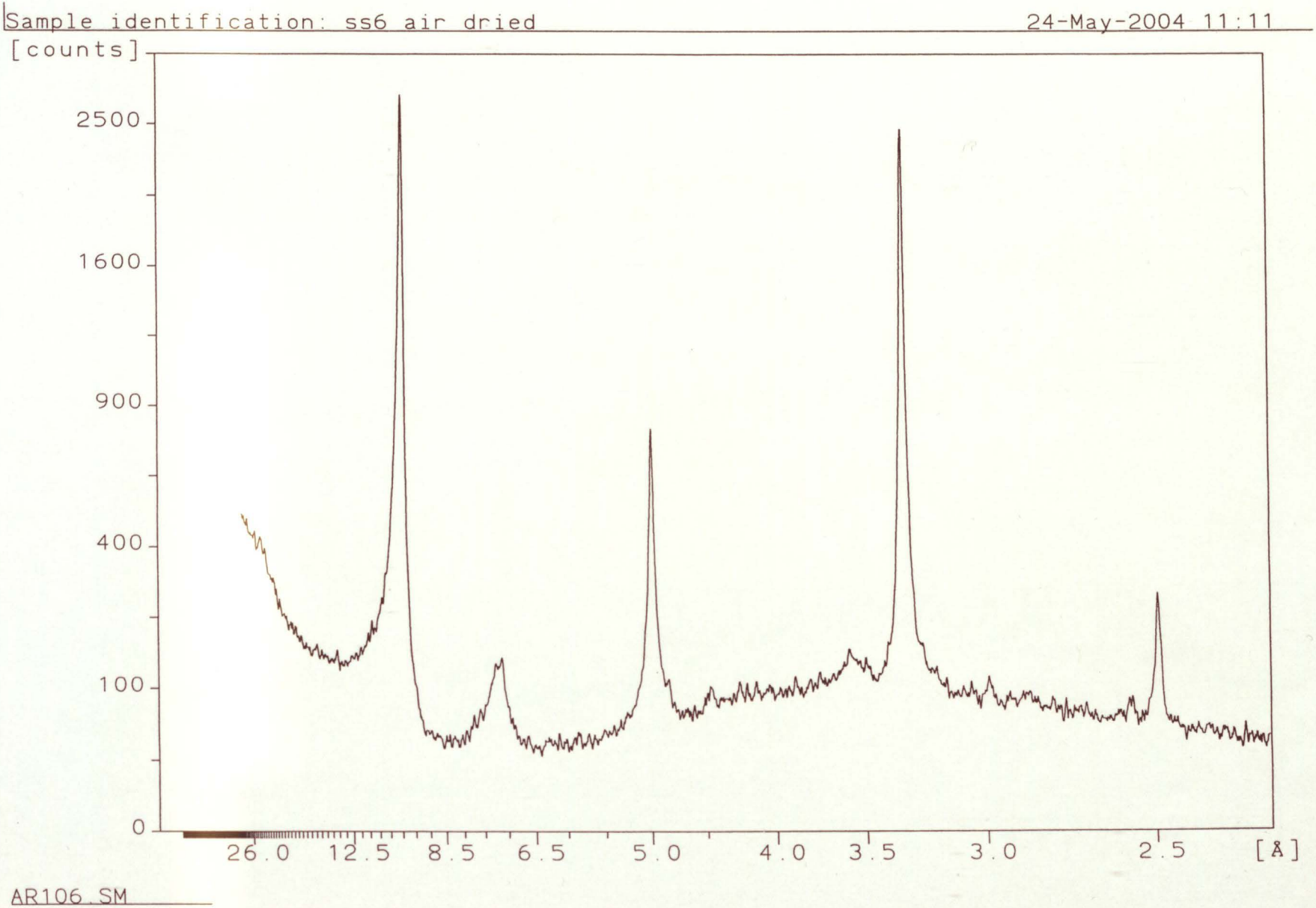
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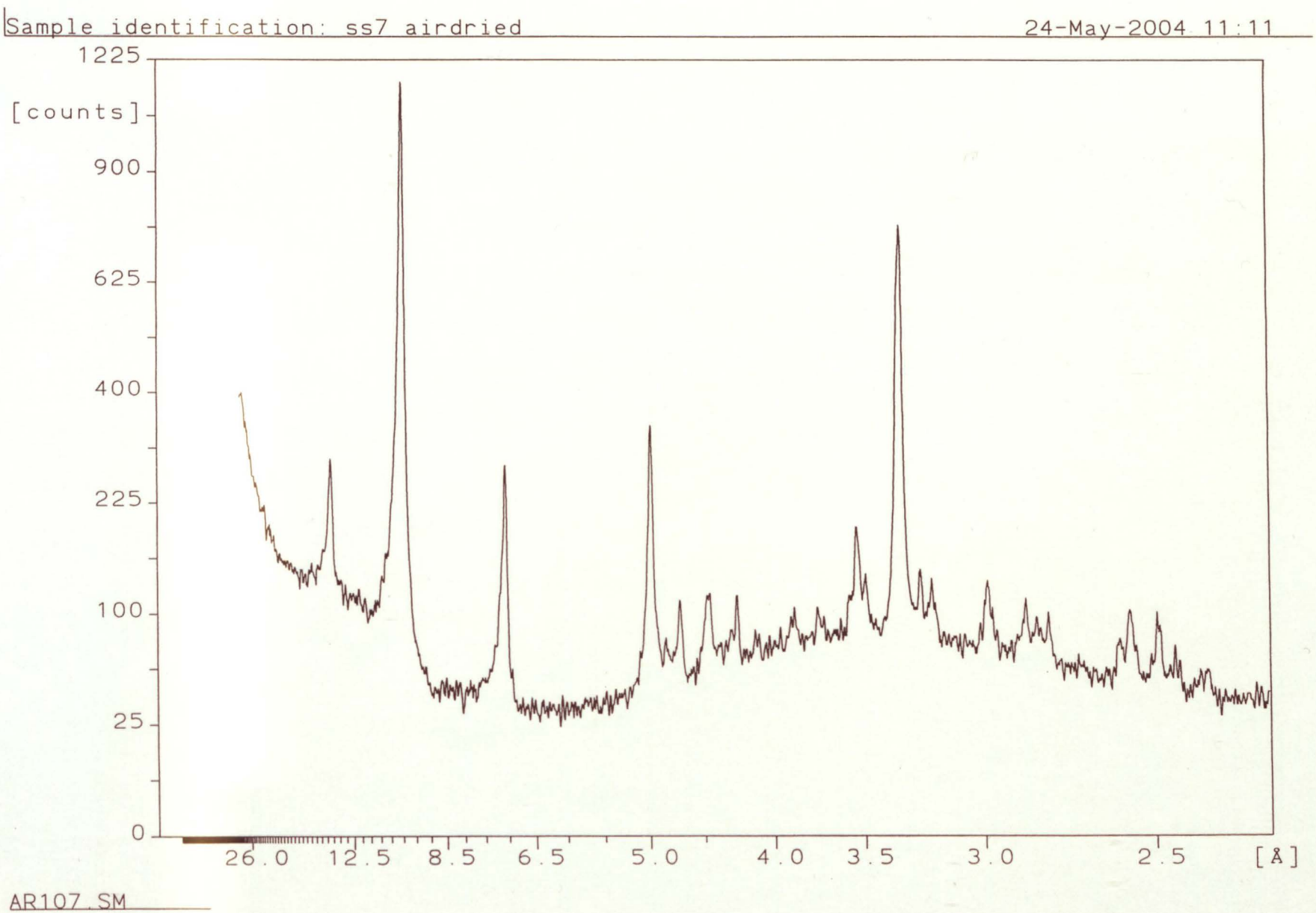
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR106.SM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25
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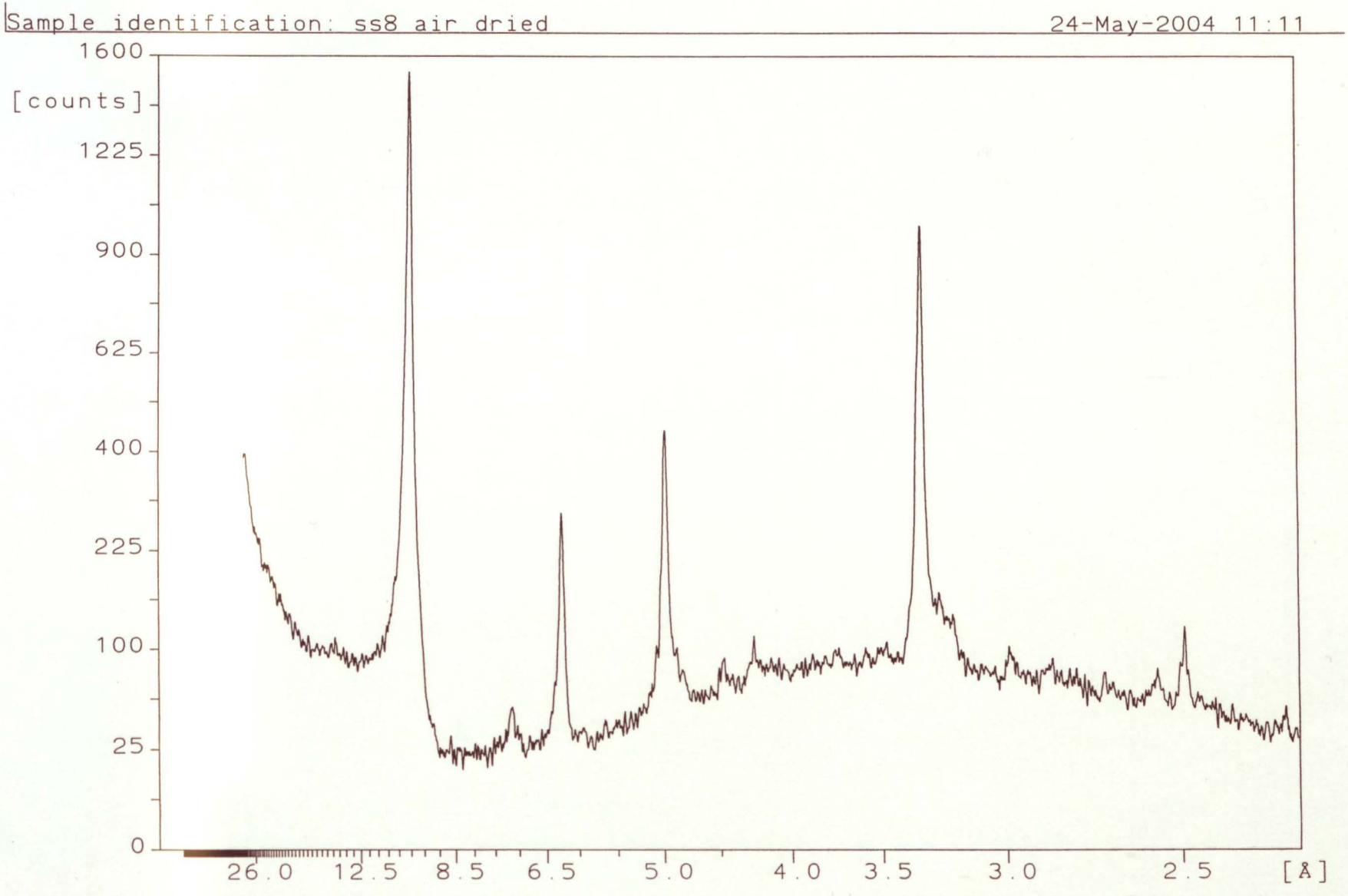
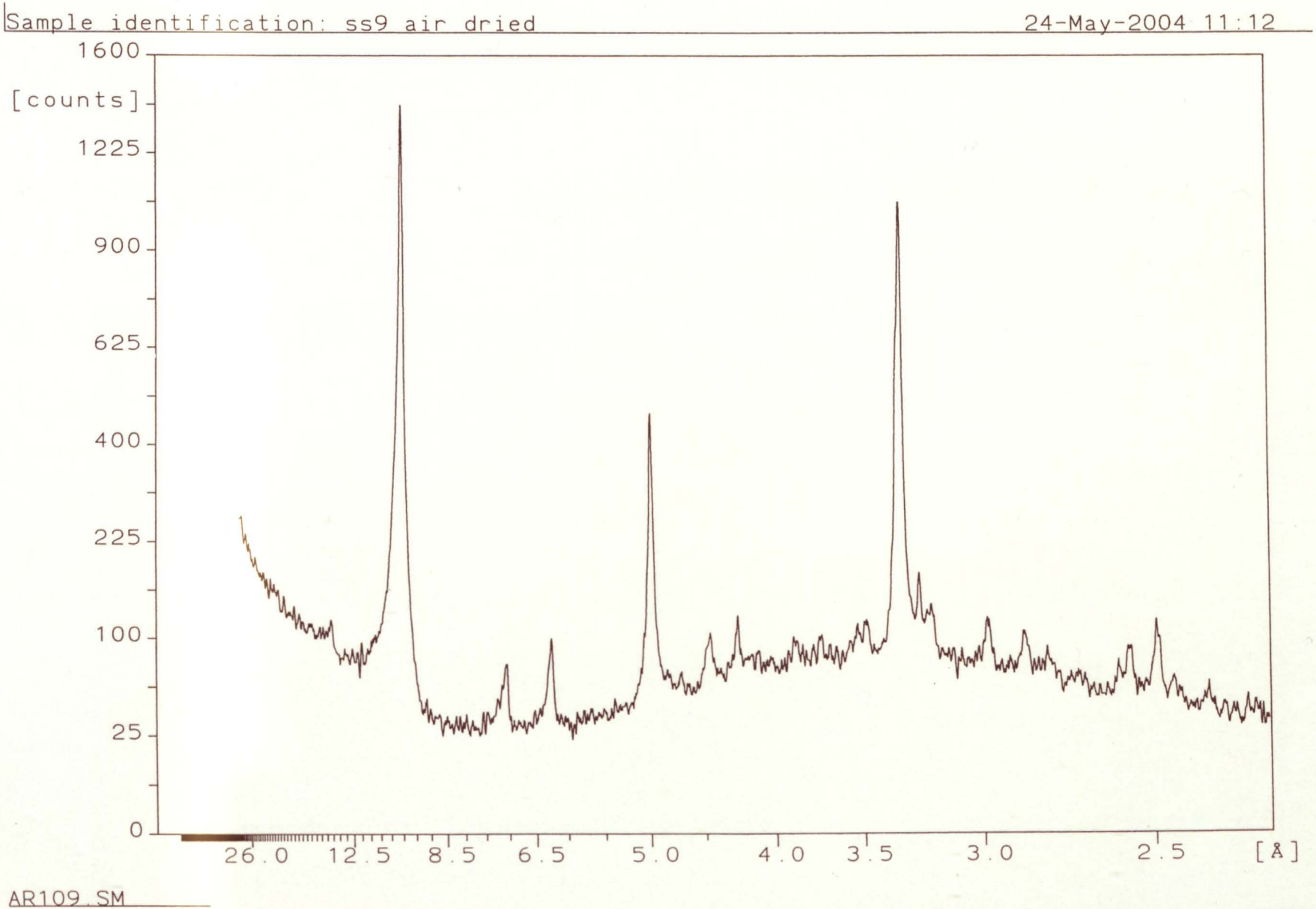
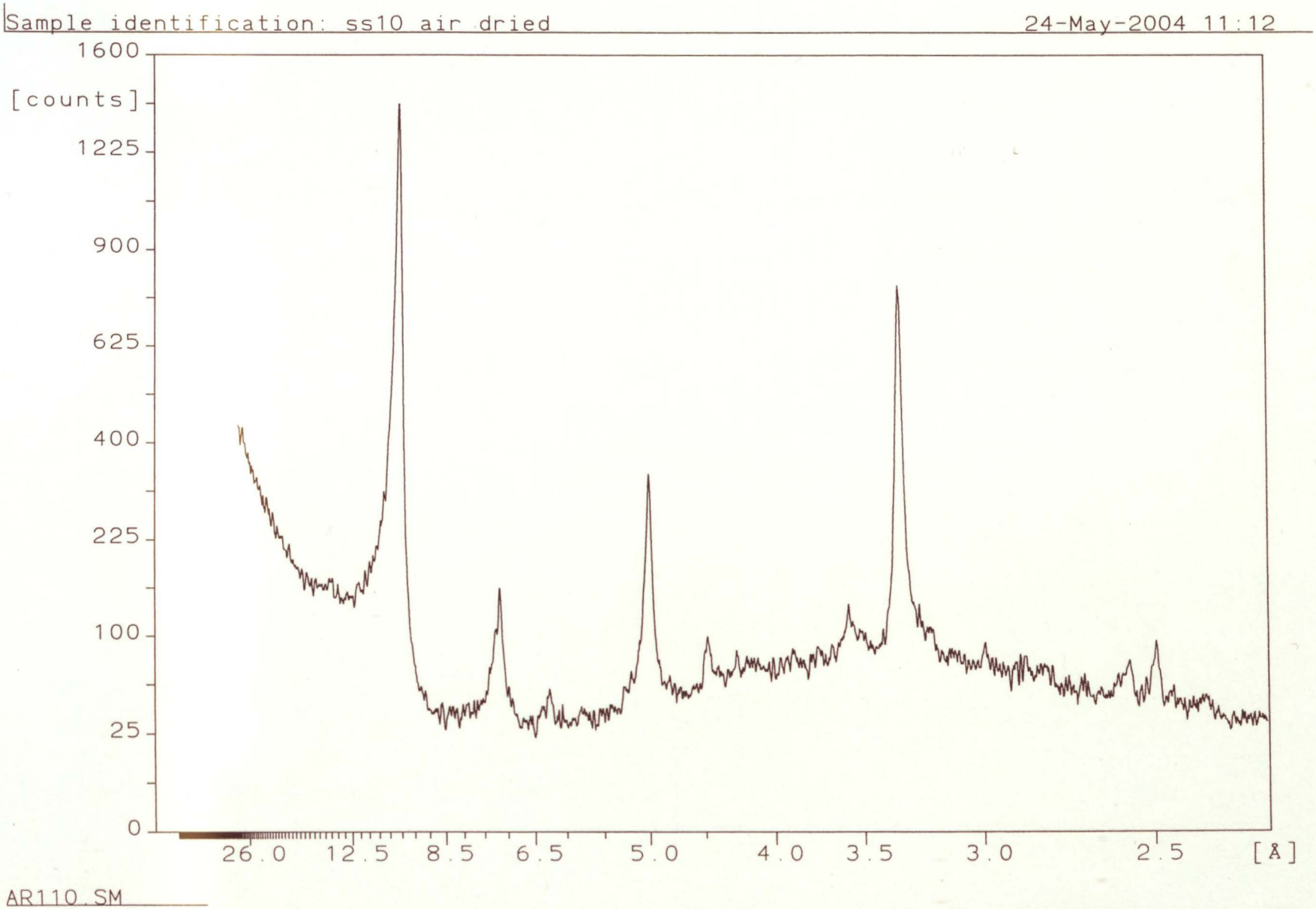
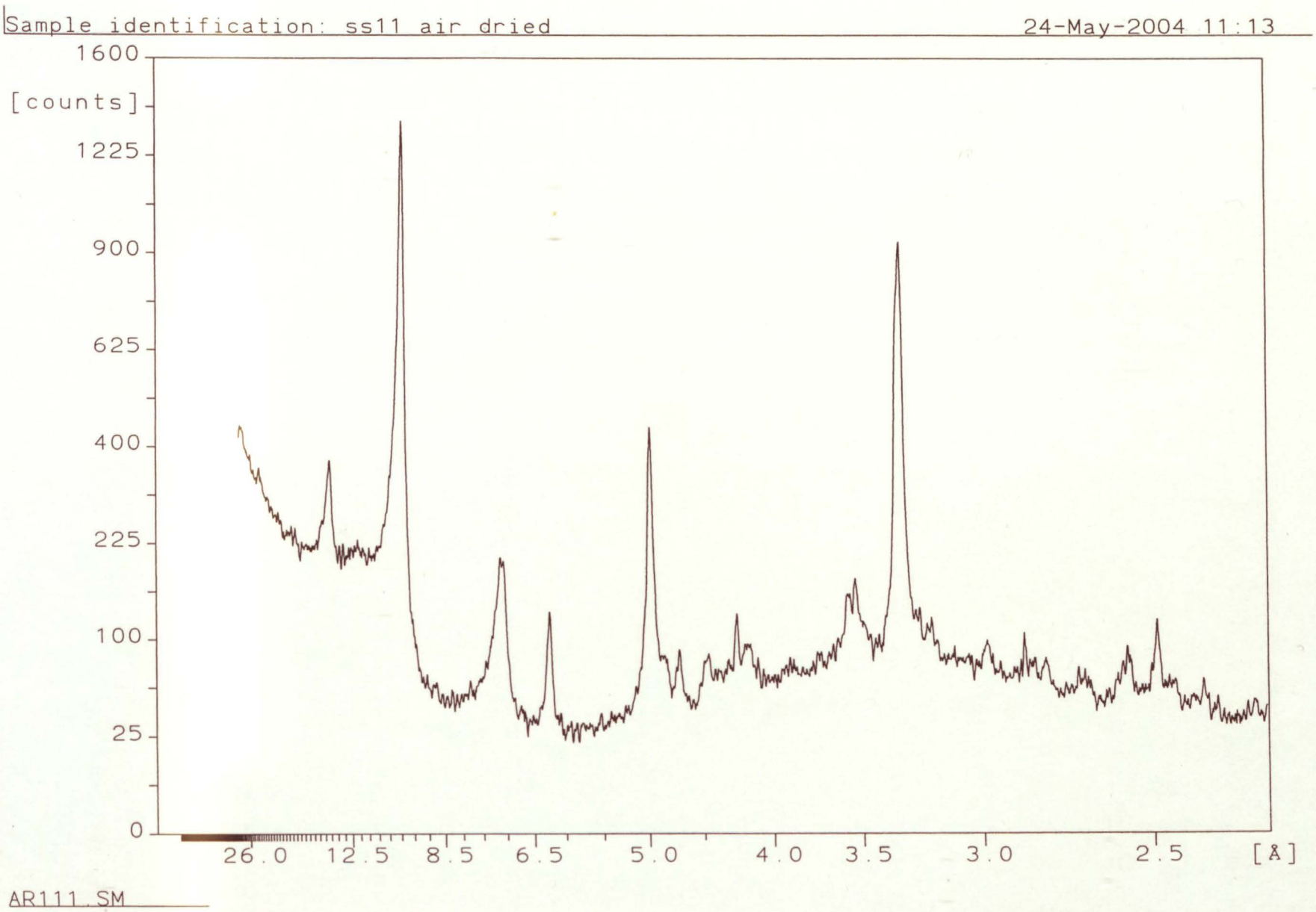
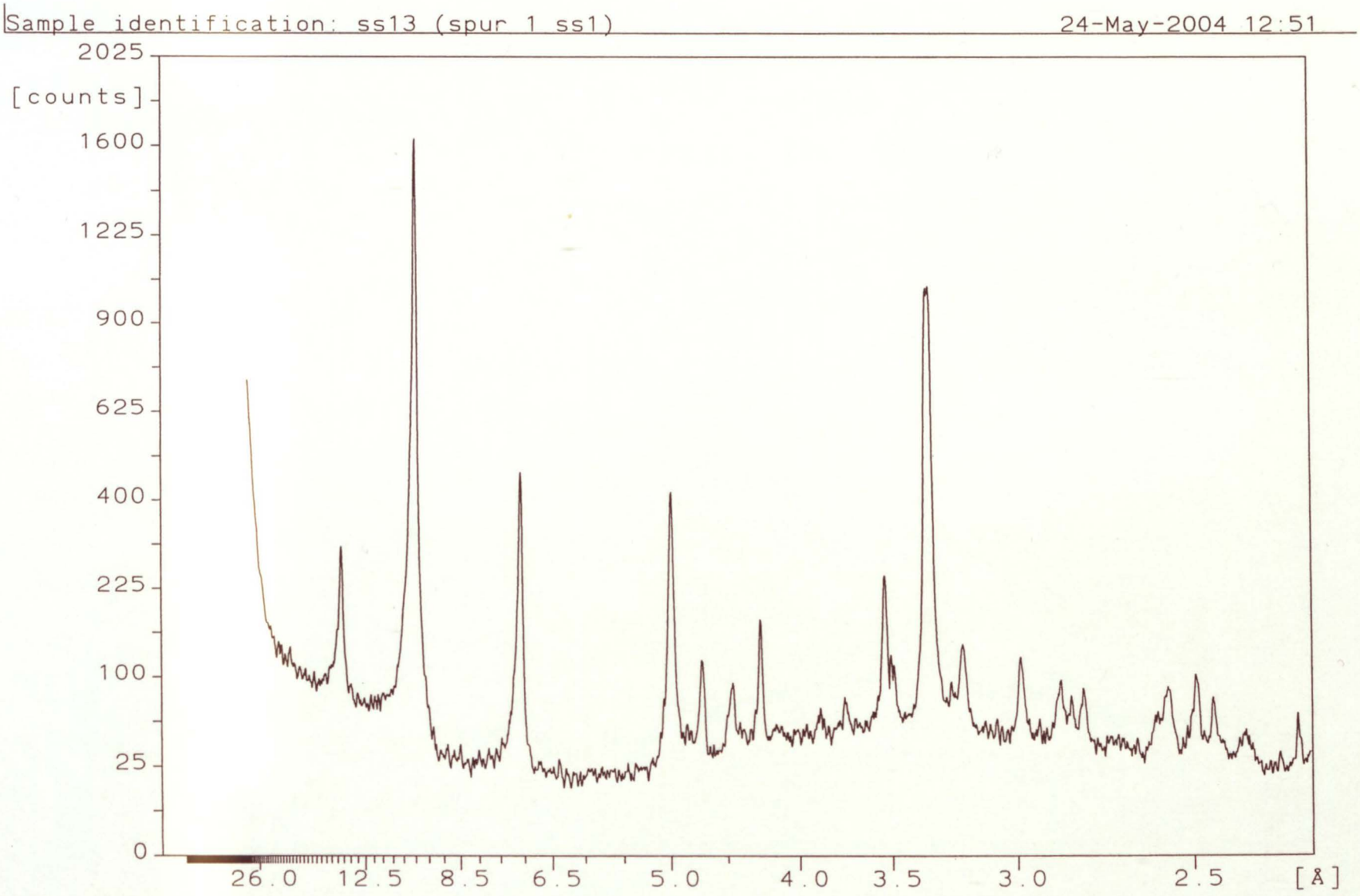
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR107.SM

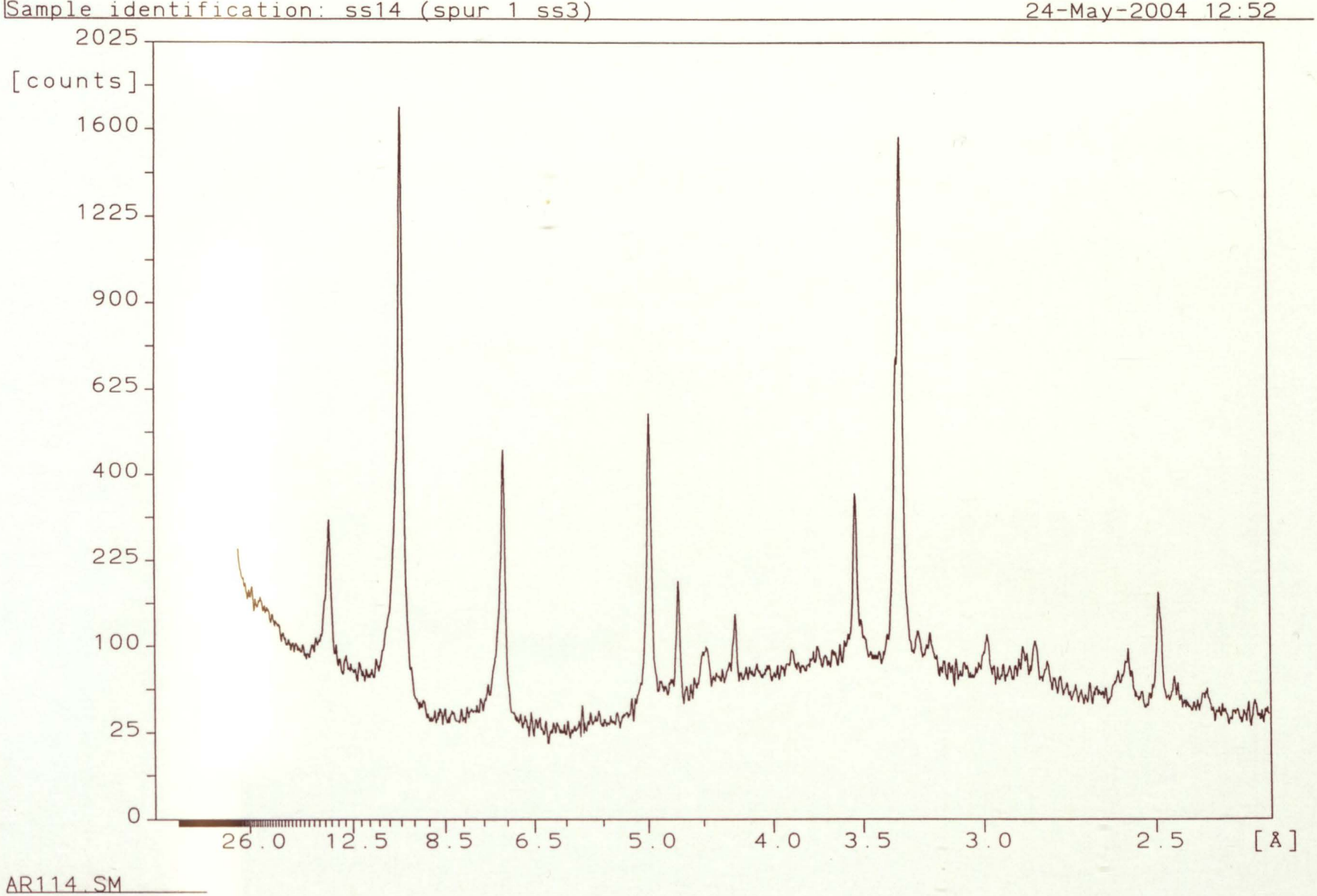

Sample identification: ss8 air dried
24-May-2004 11:11
1600
[counts]
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR108.SM

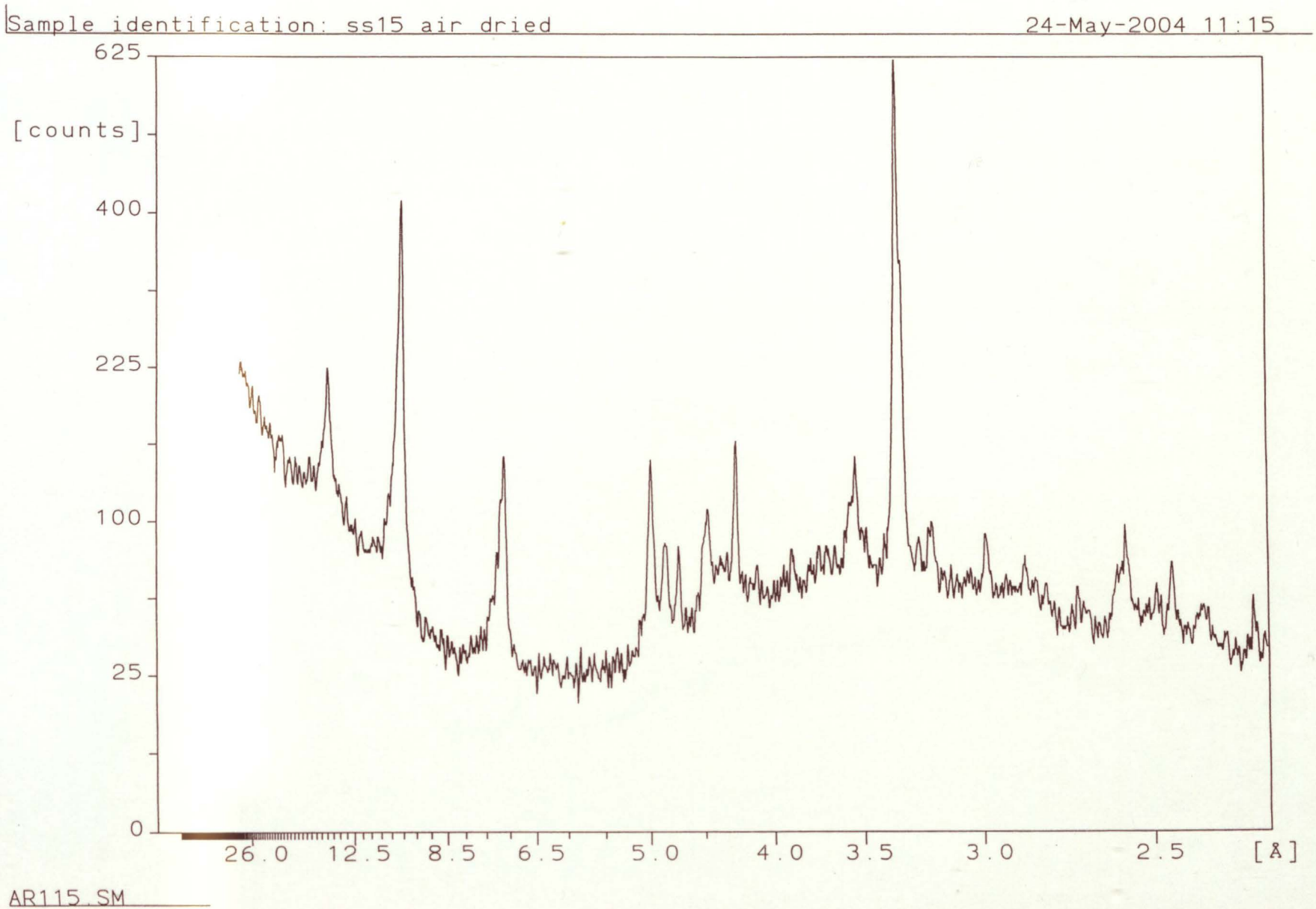

Sample identification: ss9 air dried
24-May-2004 11:12
1600
[counts]
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR109.SM


Sample identification: ss10 air dried
24-May-2004 11:12
1600
[counts]
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR110.SM

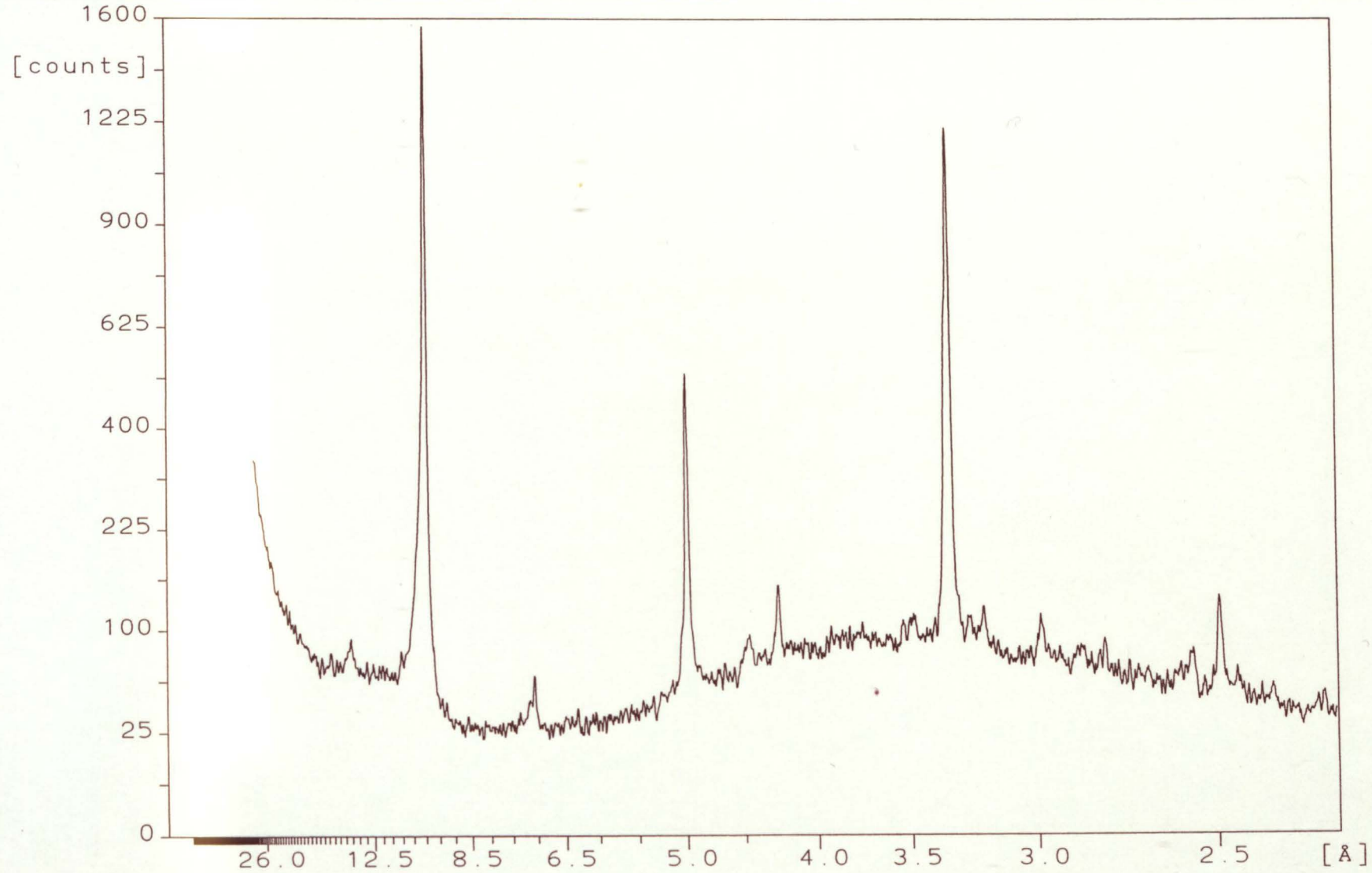

Sample identification: ss11 air dried
24-May-2004 11:13
1600
[counts]
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR111.SM


Sample identification: ss13 (spur 1 ss1)
24-May-2004 12:51
2025
[counts]
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR113.SM

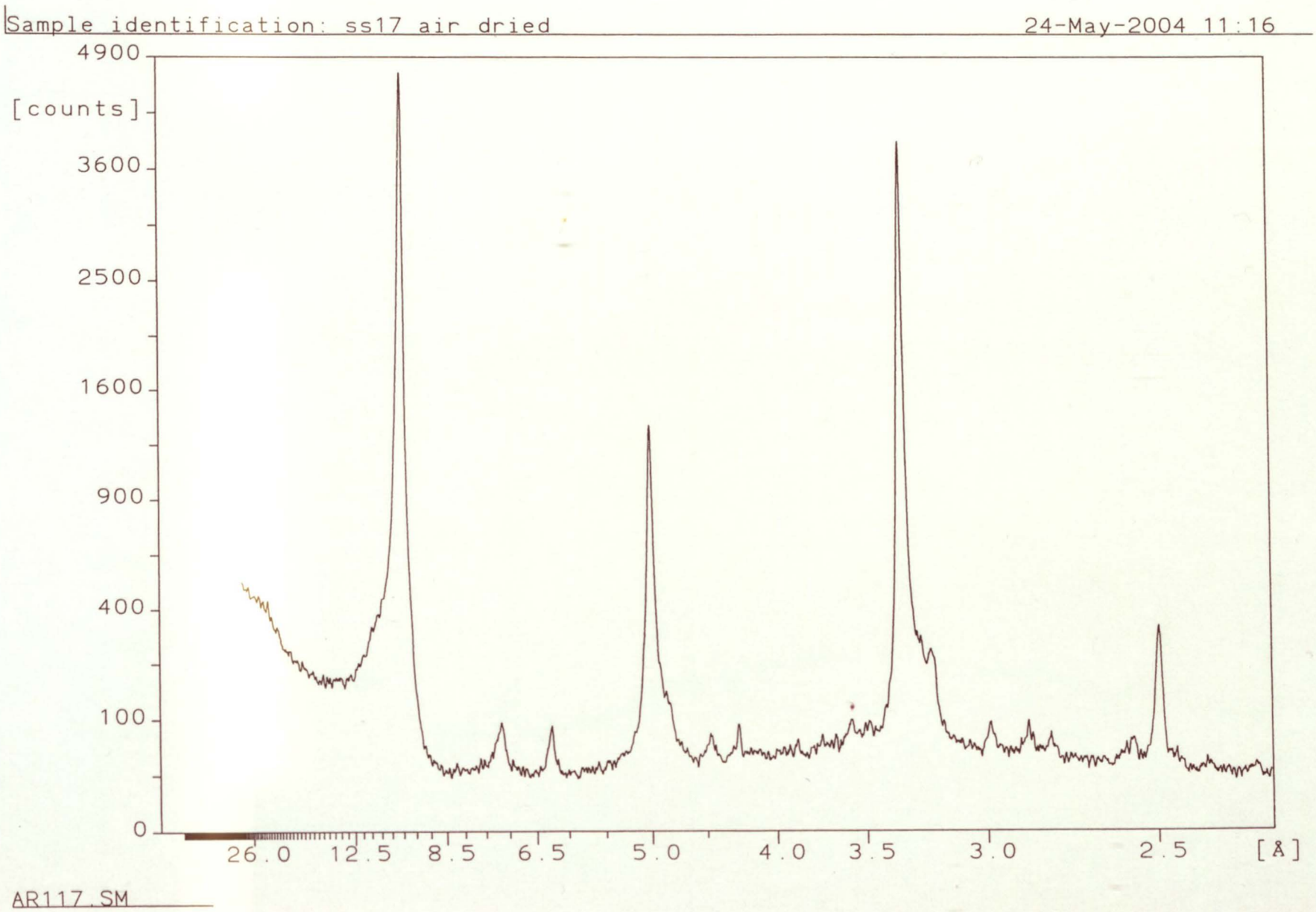

Sample identification: ss14 (spur 1 ss3)
24-May-2004 12:52
2025
[counts]
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR114.SM


Sample identification: ss15 air dried
24-May-2004 11:15
625
[counts]
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR115.SM

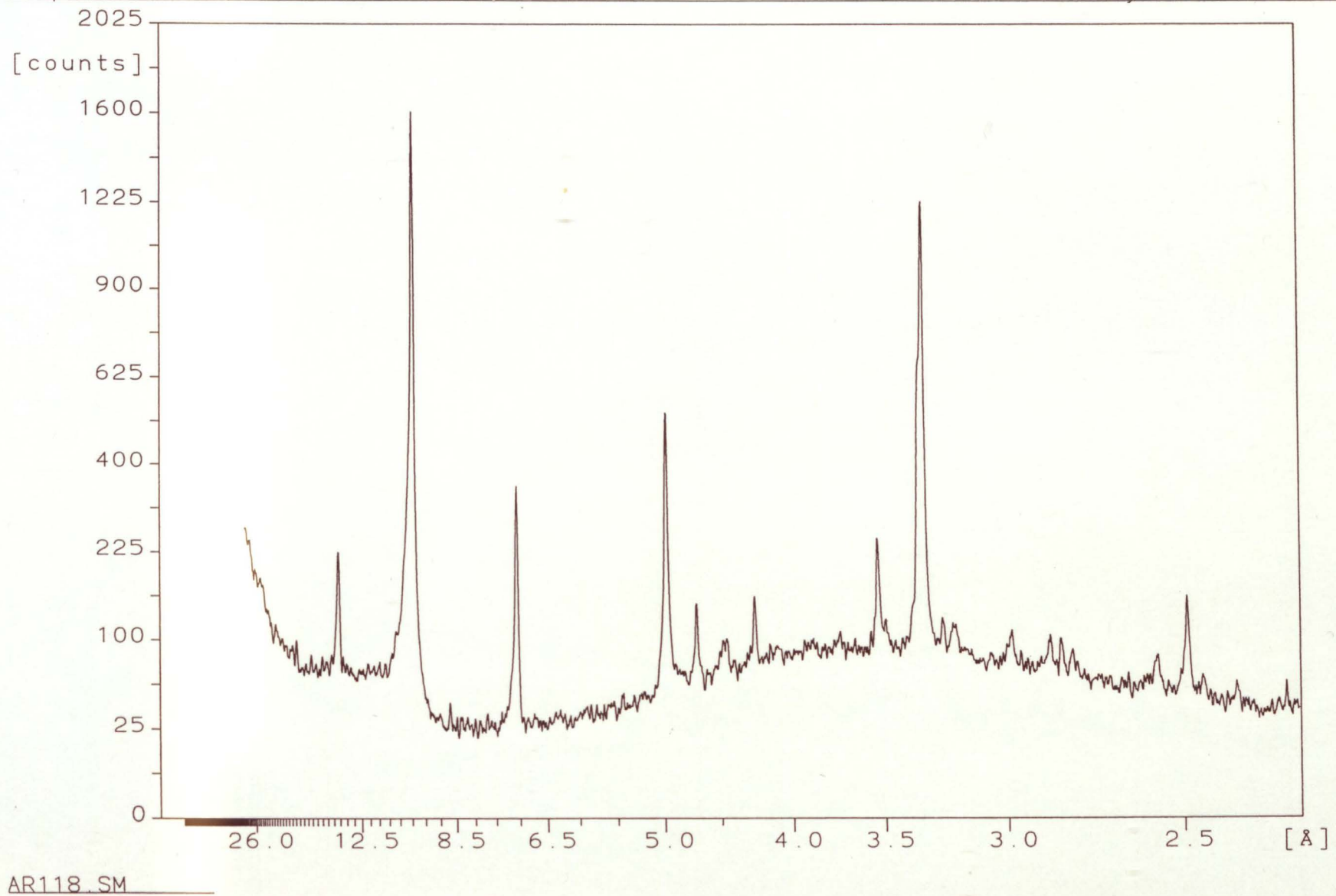
Sample identification: ss16 air dried 24-May-2004 11:15

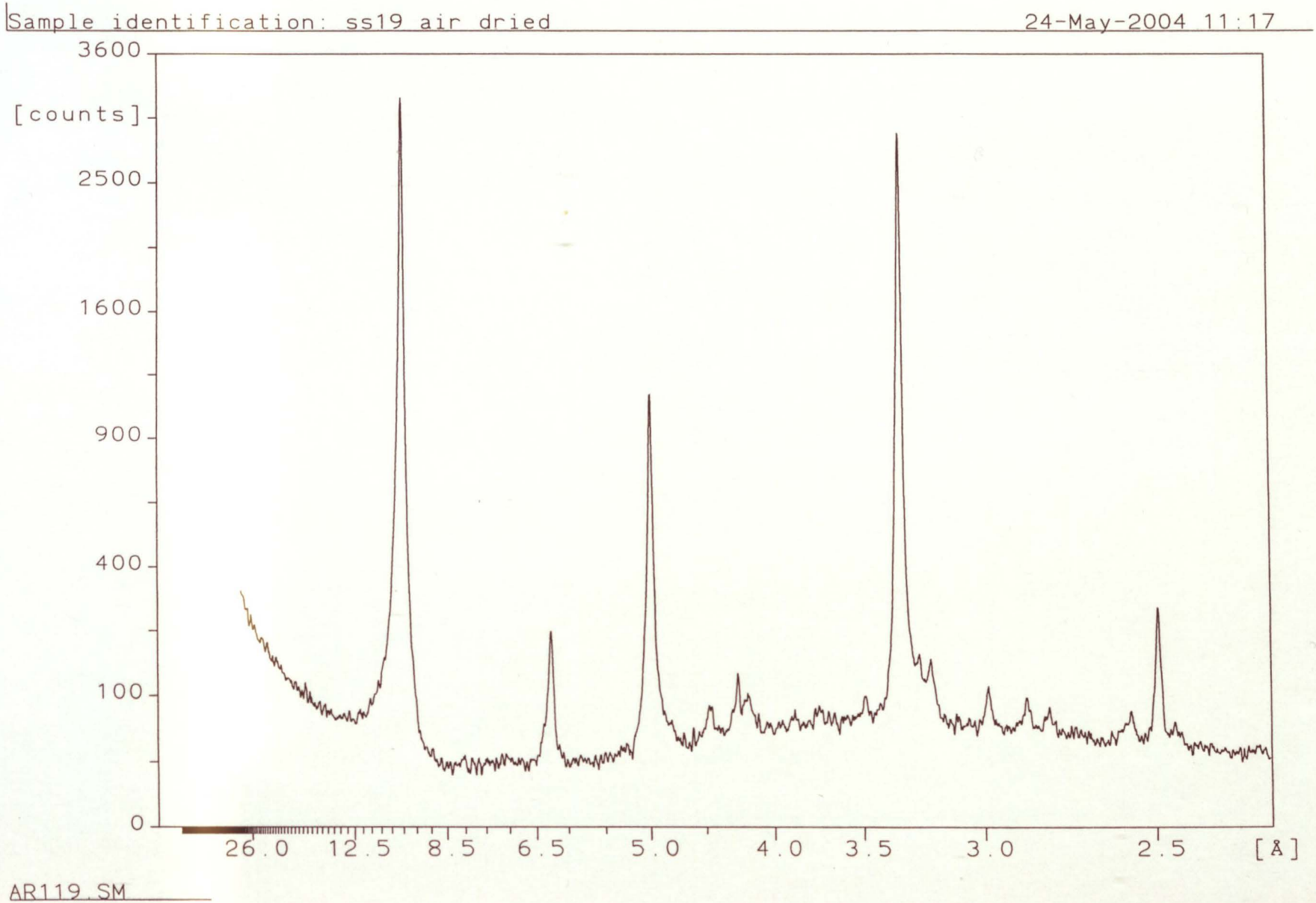


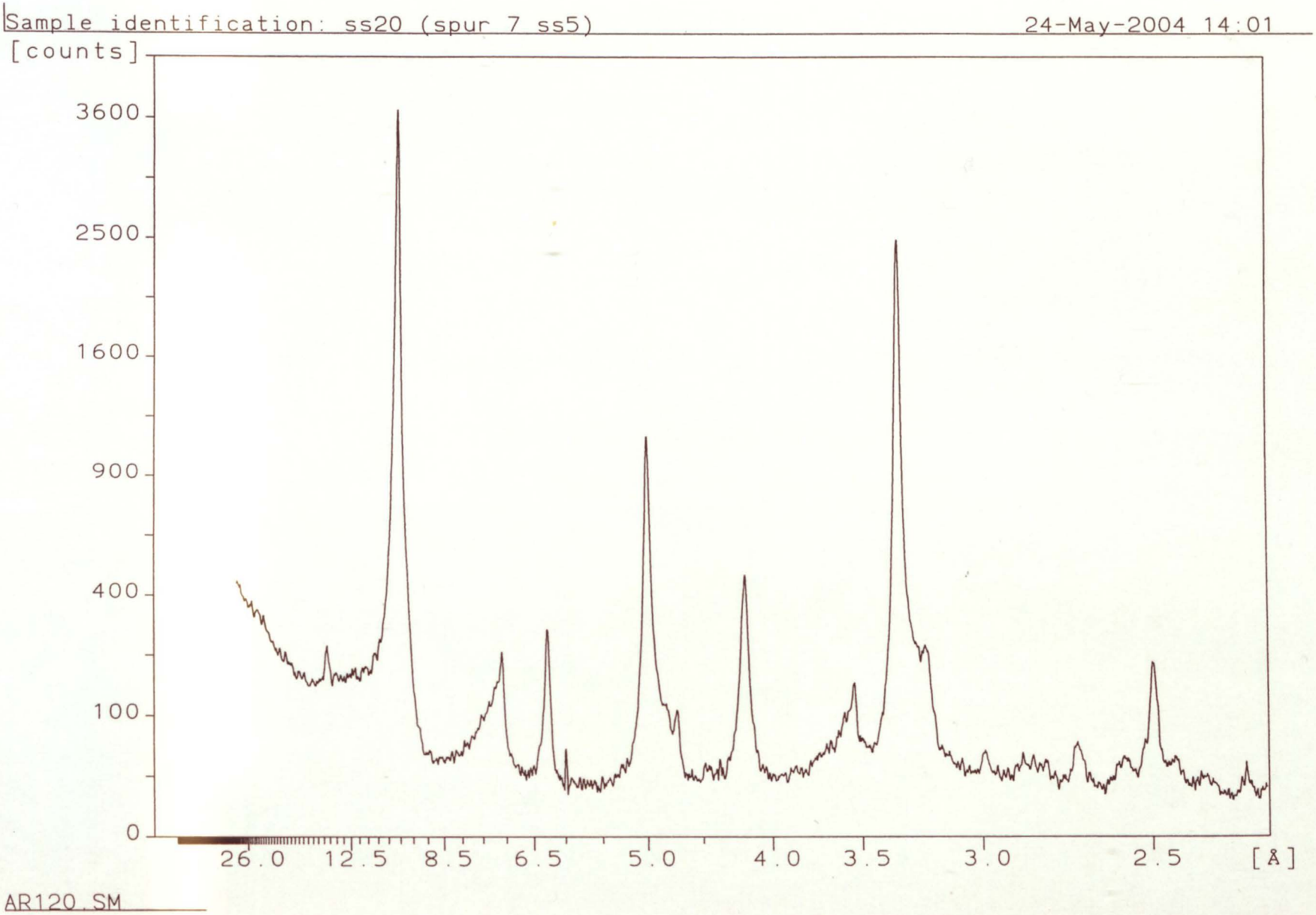
AR116.SM

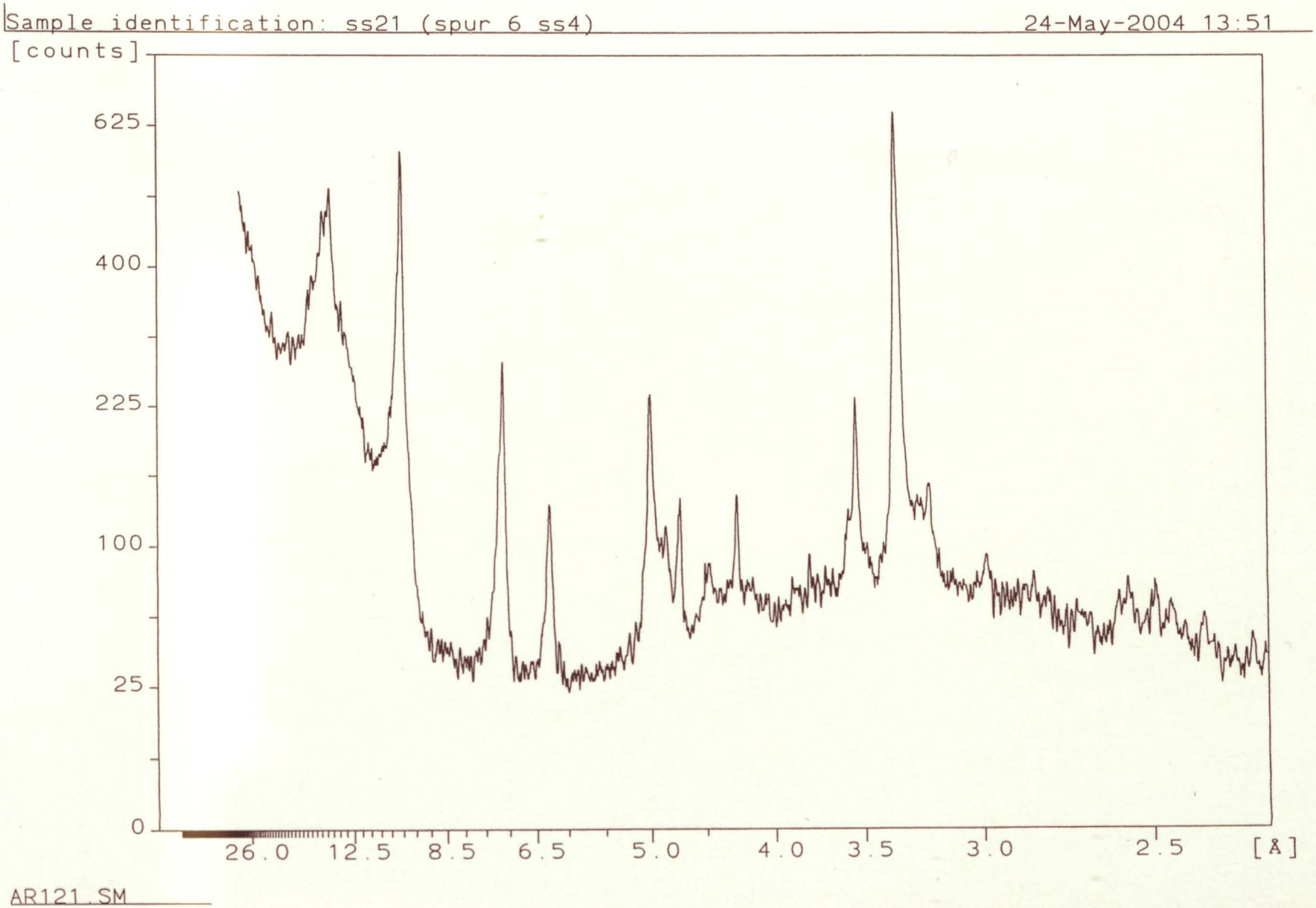

Sample identification: ss17 air dried
24-May-2004 11:16
4900
[counts]
3600
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR117.SM

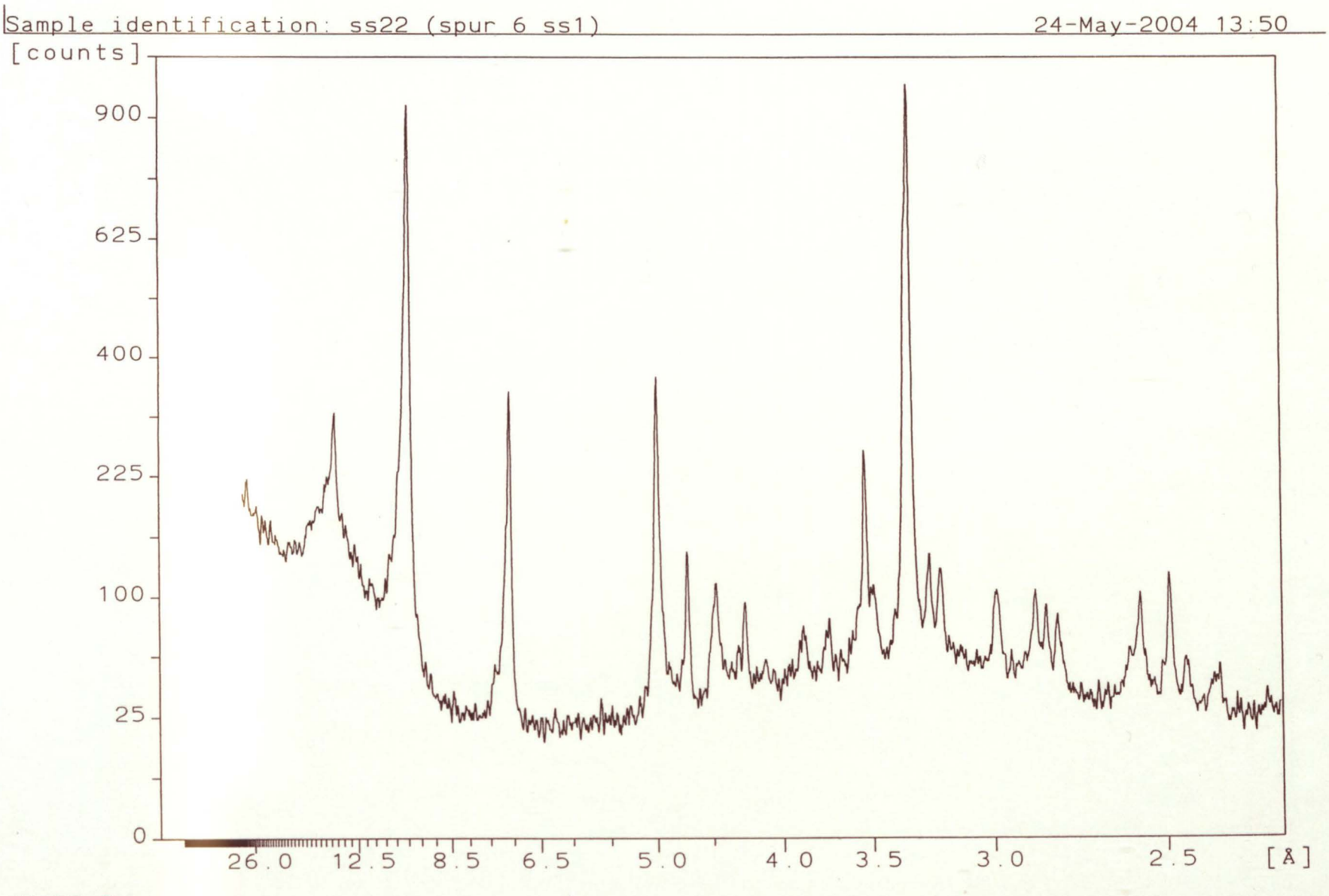
A27

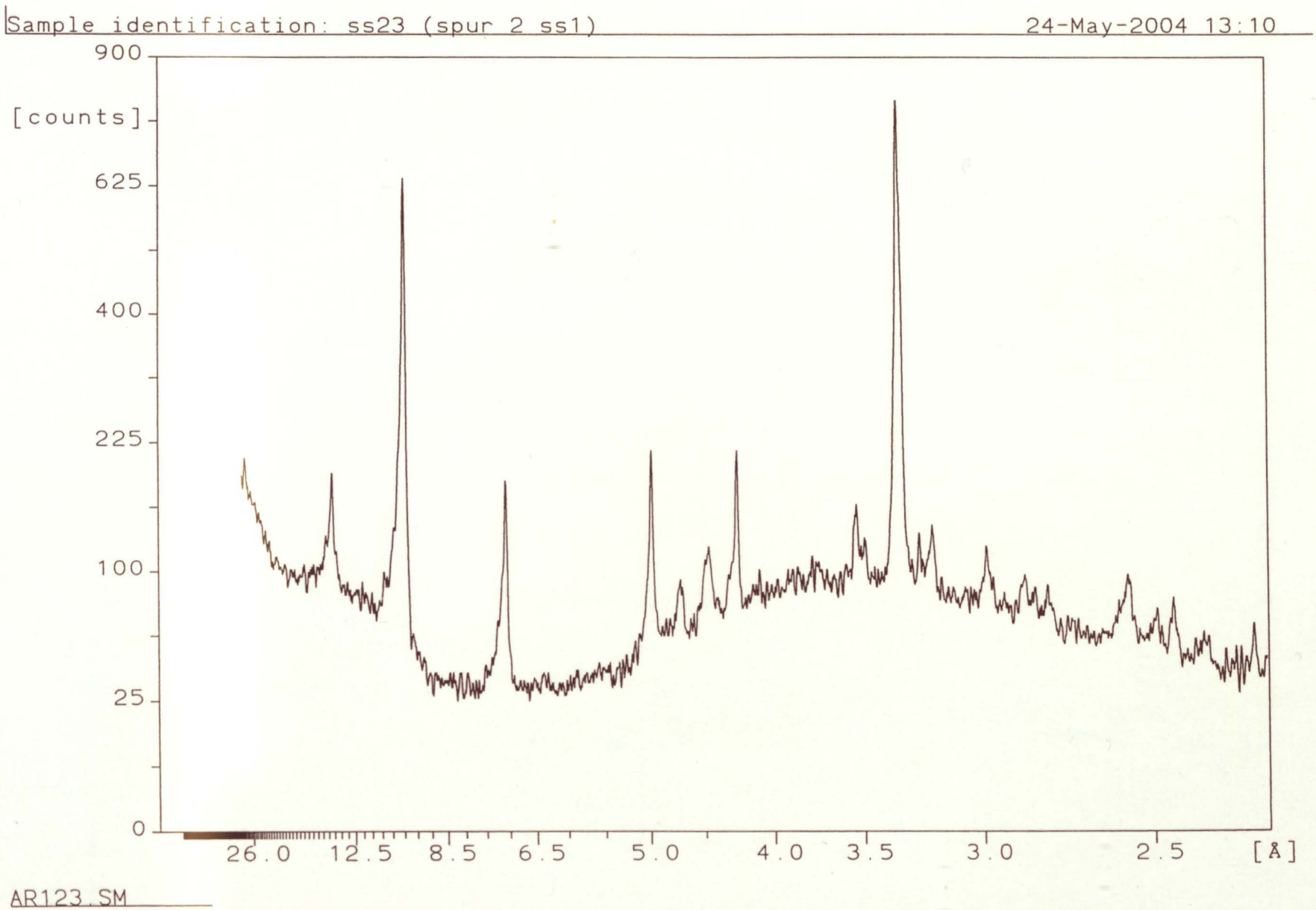

Sample identification: ss18 air dried
24-May-2004 11:16
2025
[counts]
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR118.SM

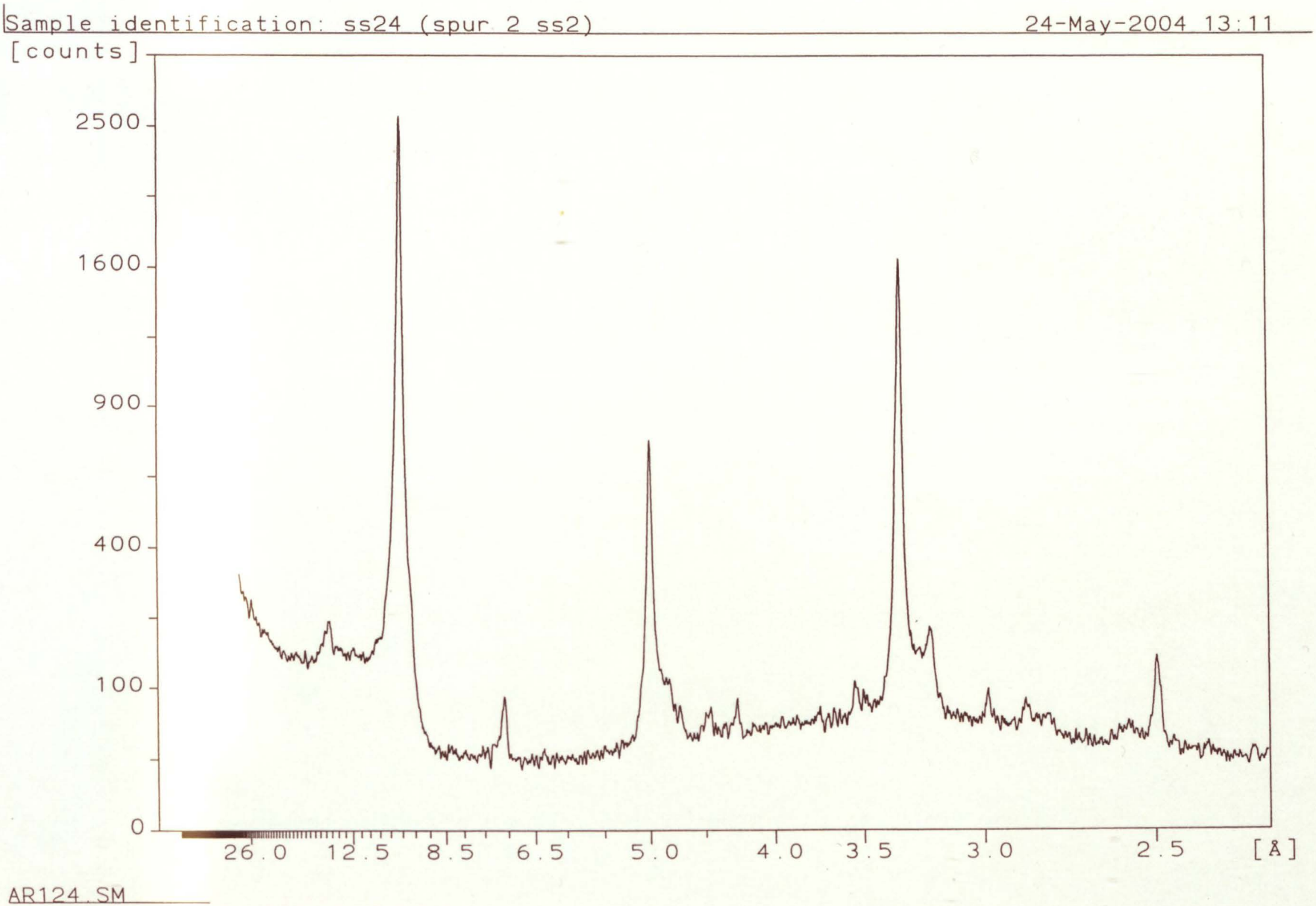

Sample identification: ss19 air dried
24-May-2004 11:17
3600
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR119.SM

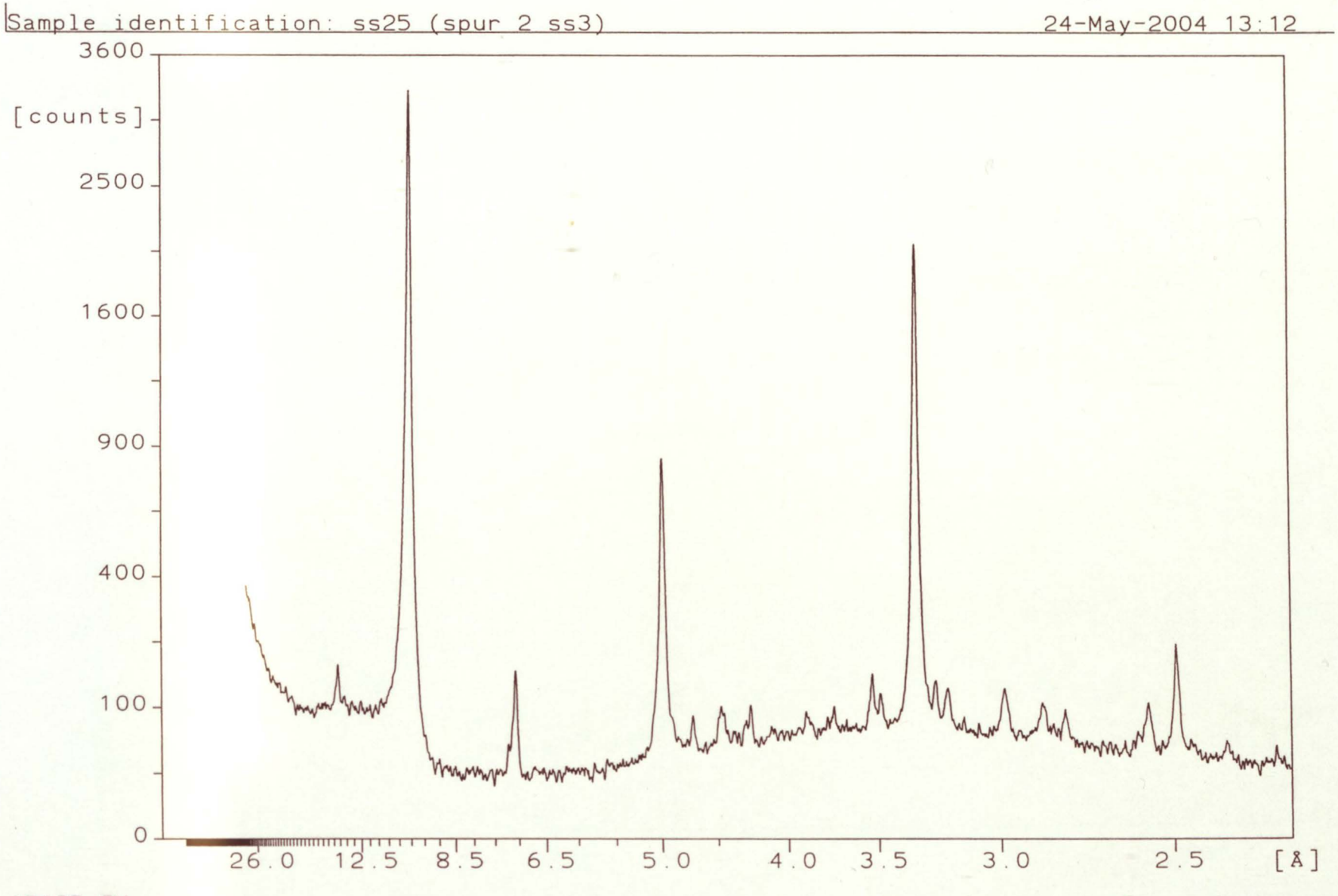

Sample identification: ss20 (spur 7 ss5)
24-May-2004 14:01
[counts]
3600
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR120.SM

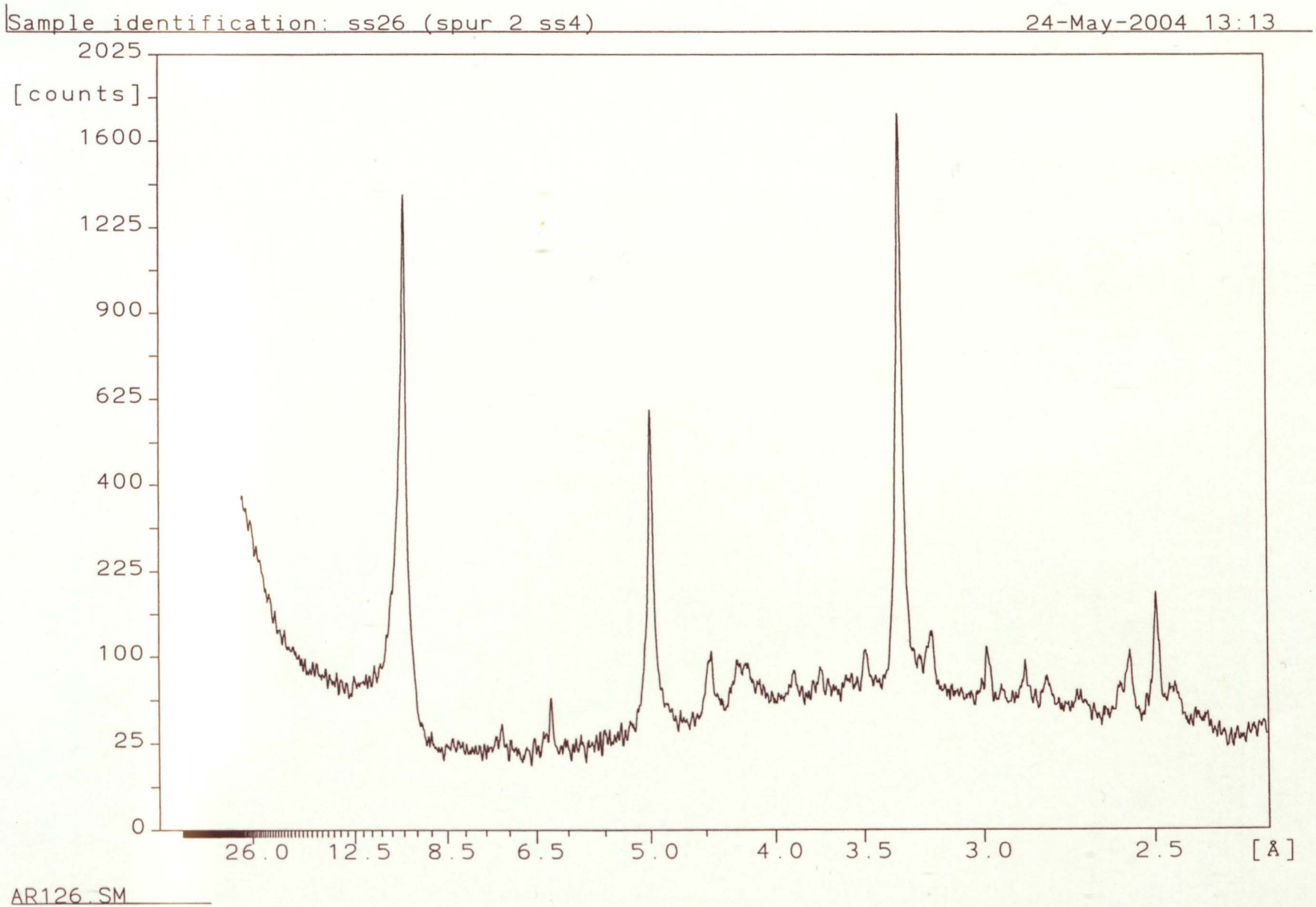

Sample identification: ss21 (spur 6 ss4)
24-May-2004 13:51
[counts]
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR121.SM

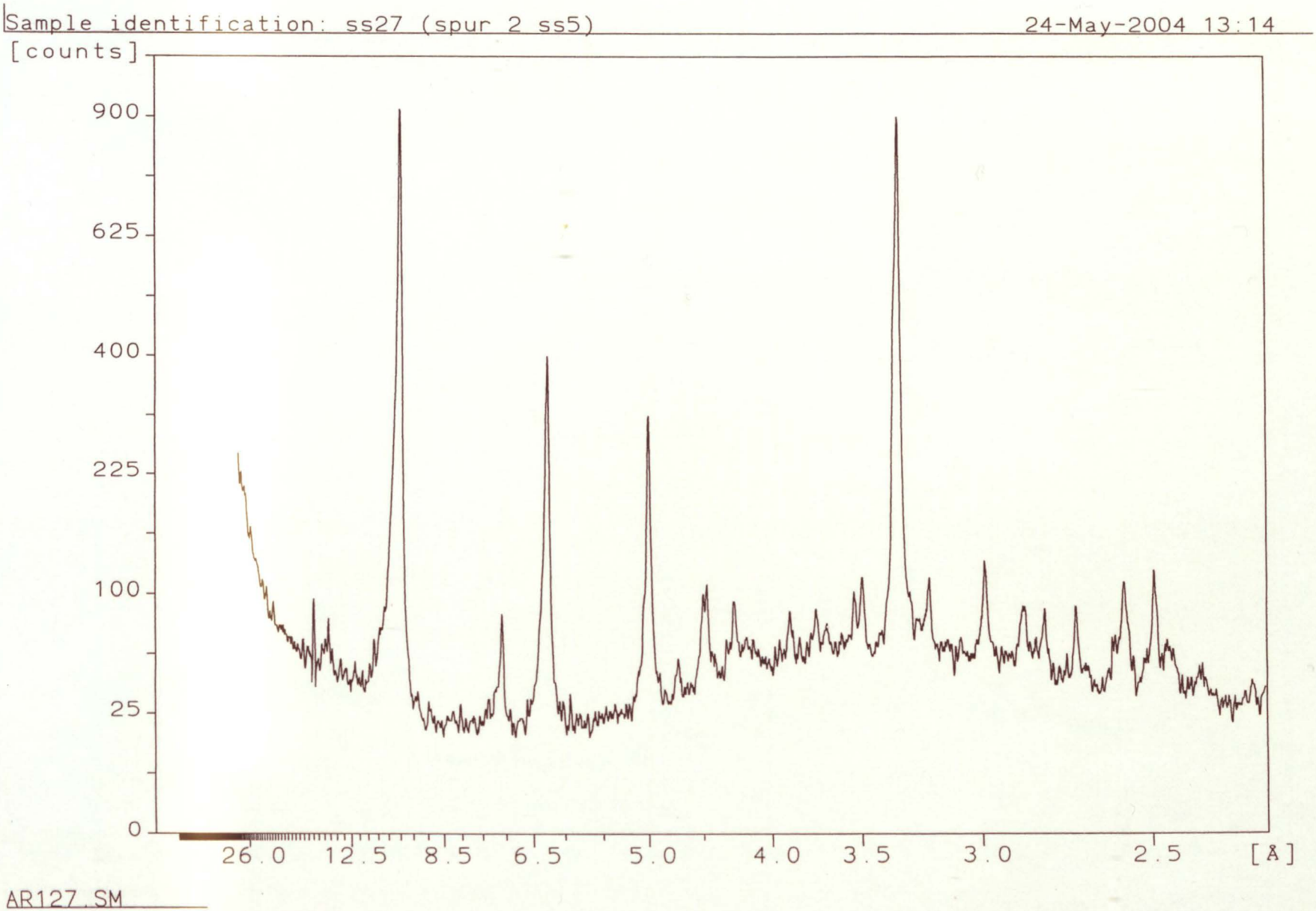

Sample identification: ss22 (spur 6 ss1)
24-May-2004 13:50
[counts]
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR122.SM

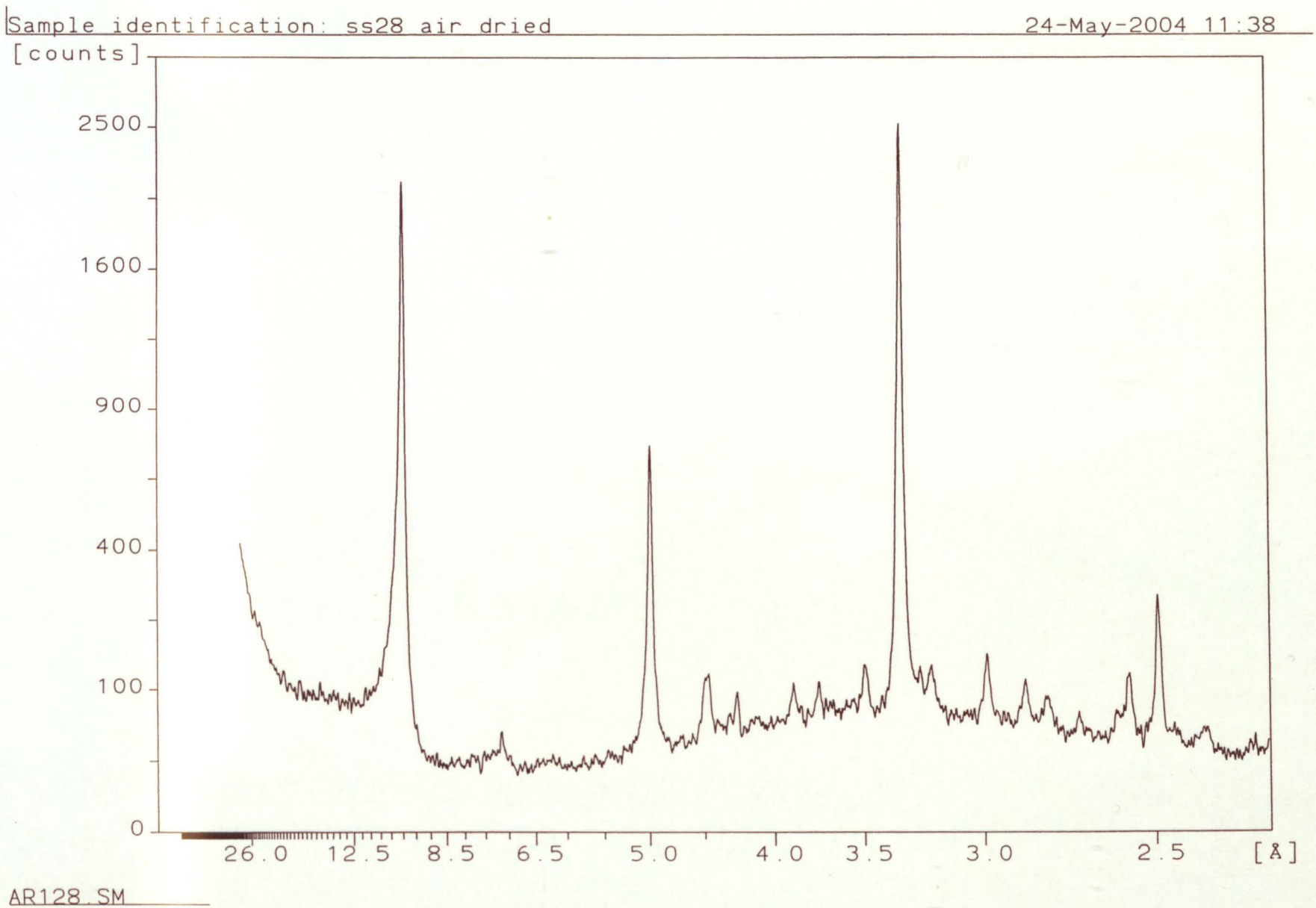

Sample identification: ss23 (spur 2 ss1)
24-May-2004 13:10
900
[counts]
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR123.SM

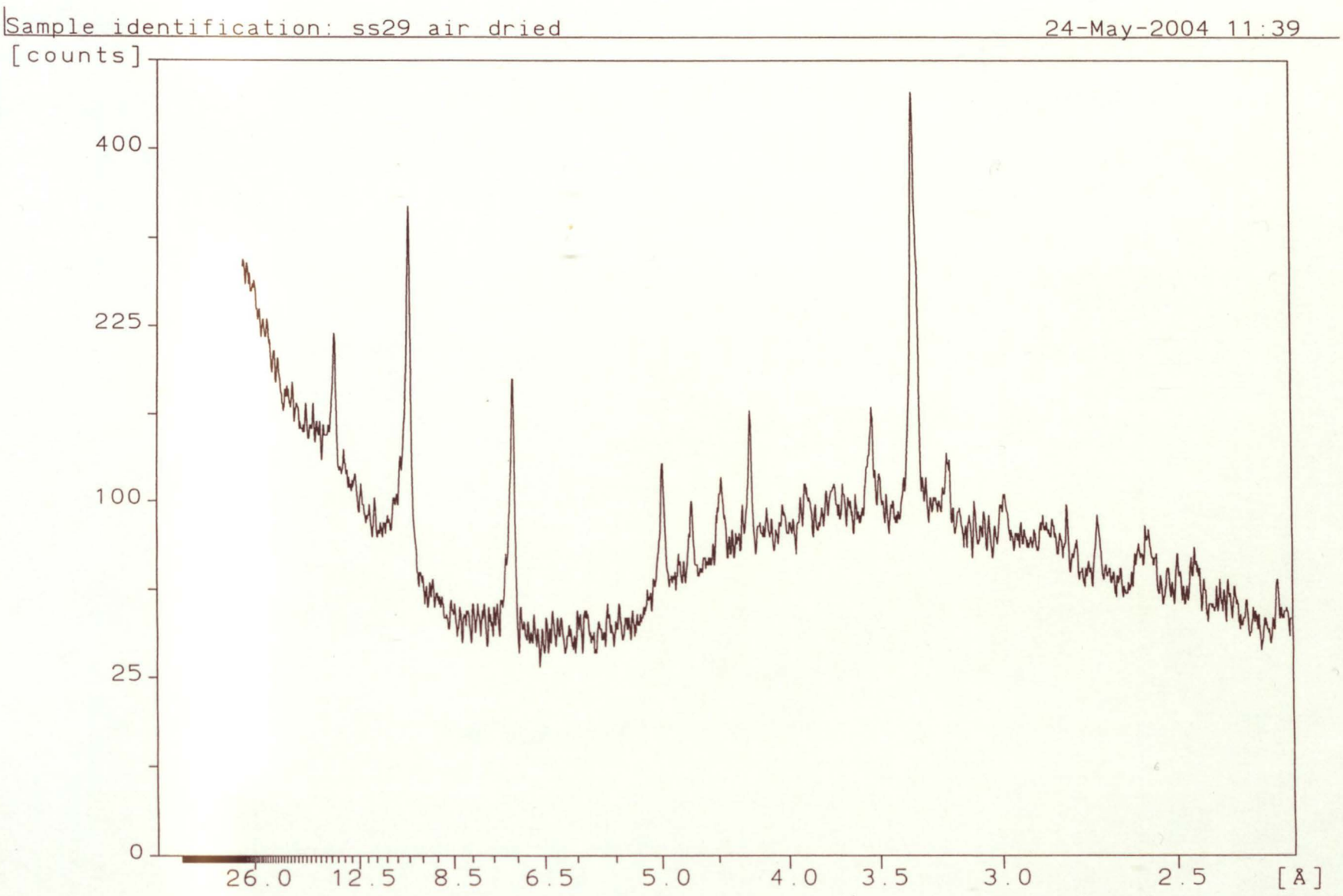

Sample identification: ss24 (spur 2 ss2)
24-May-2004 13:11
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR124.SM

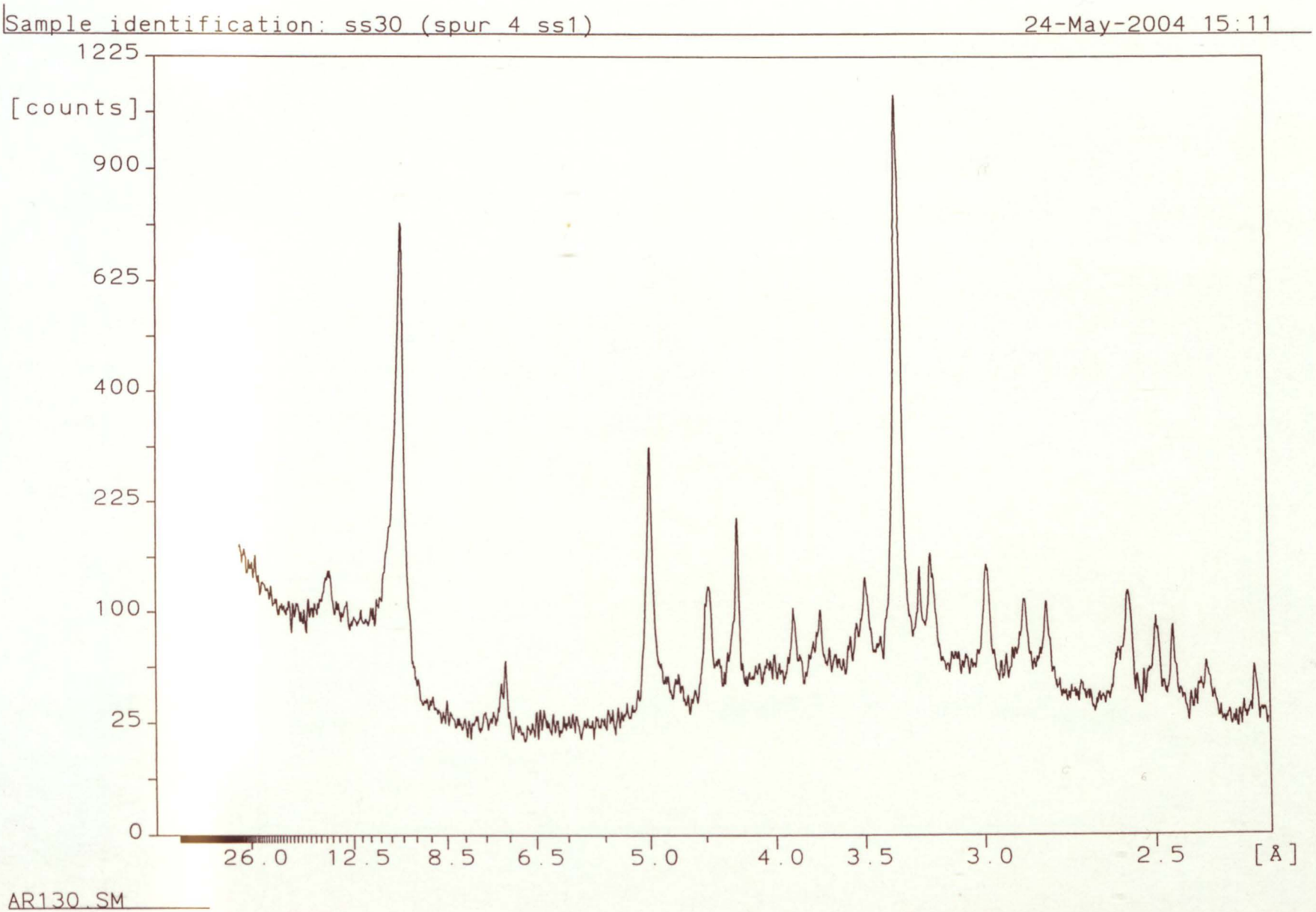

Sample identification: ss25 (spur 2 ss3)
24-May-2004 13:12
3600
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR125.SM


Sample identification: ss26 (spur 2 ss4)
24-May-2004 13:13
2025
[counts]
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR126.SM

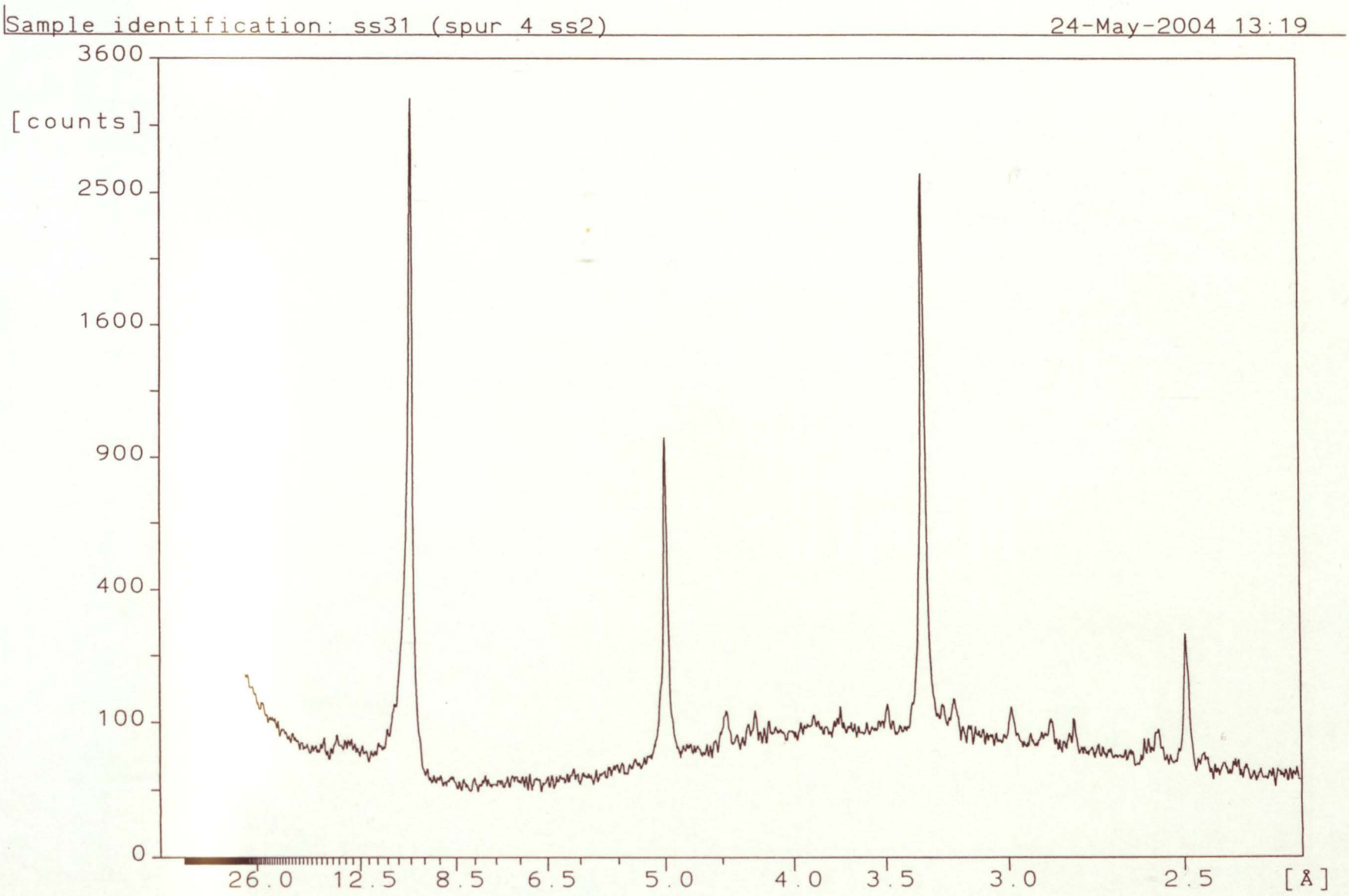

Sample identification: ss27 (spur 2 ss5)
24-May-2004 13:14
[counts]
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR127.SM

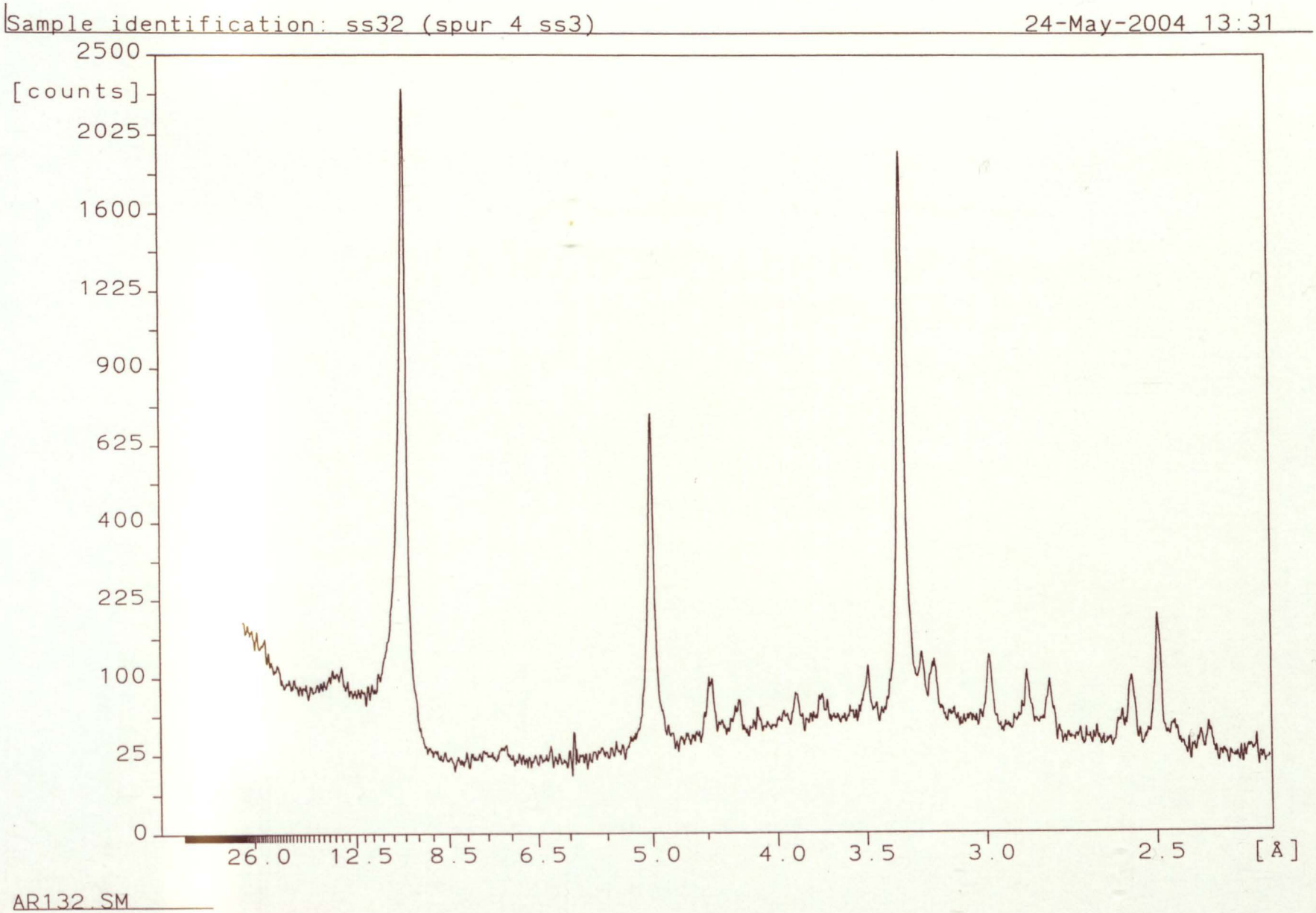

Sample identification: ss28 air dried
24-May-2004 11:38
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR128.SM


Sample identification: ss29 air dried
24-May-2004 11:39
[counts]
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR129.SM

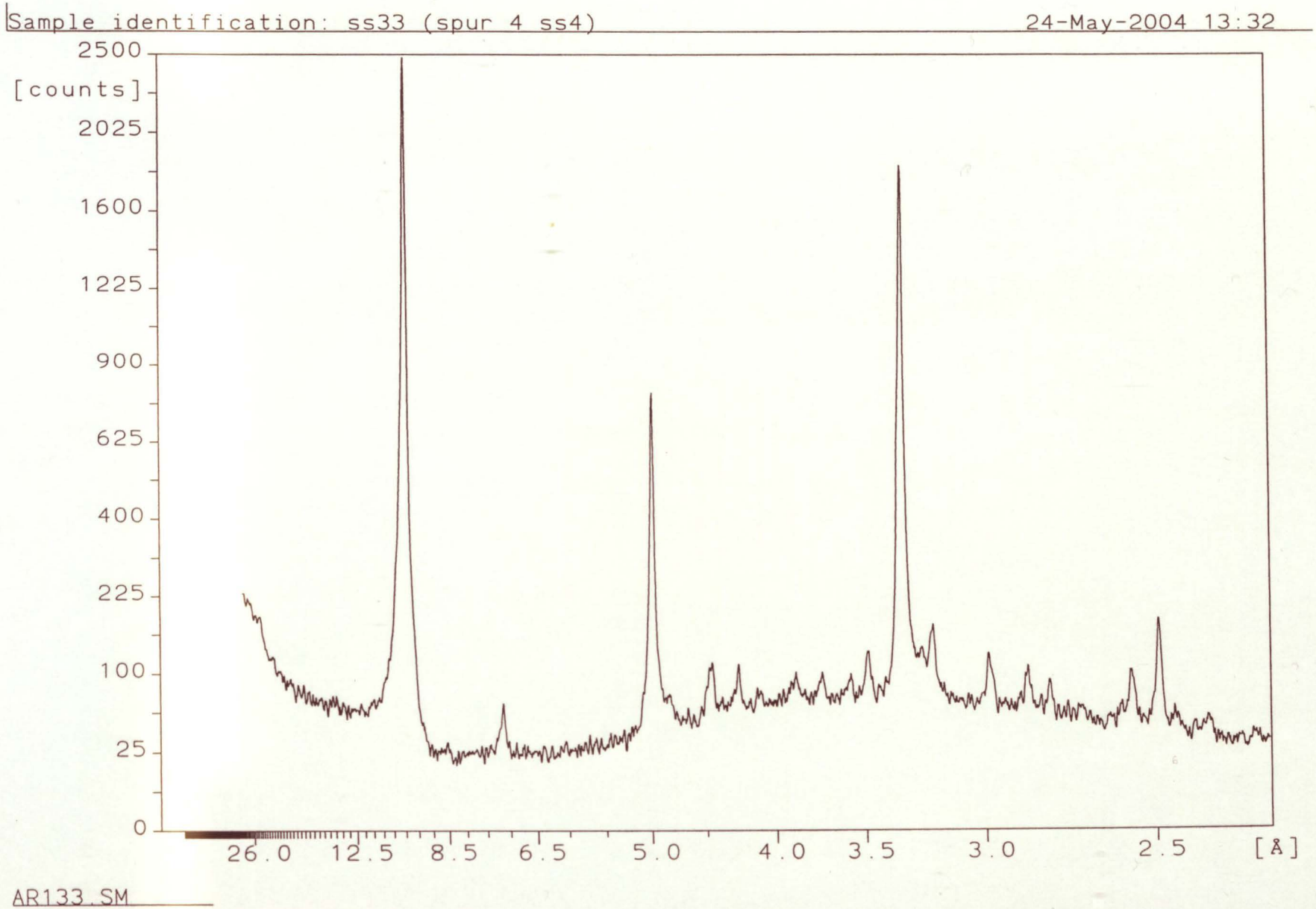

Sample identification: ss30 (spur 4 ss1)
24-May-2004 15:11
1225
[counts]
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR130.SM

A40


Sample identification: ss31 (spur 4 ss2)
24-May-2004 13:19
3600
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR131.SM

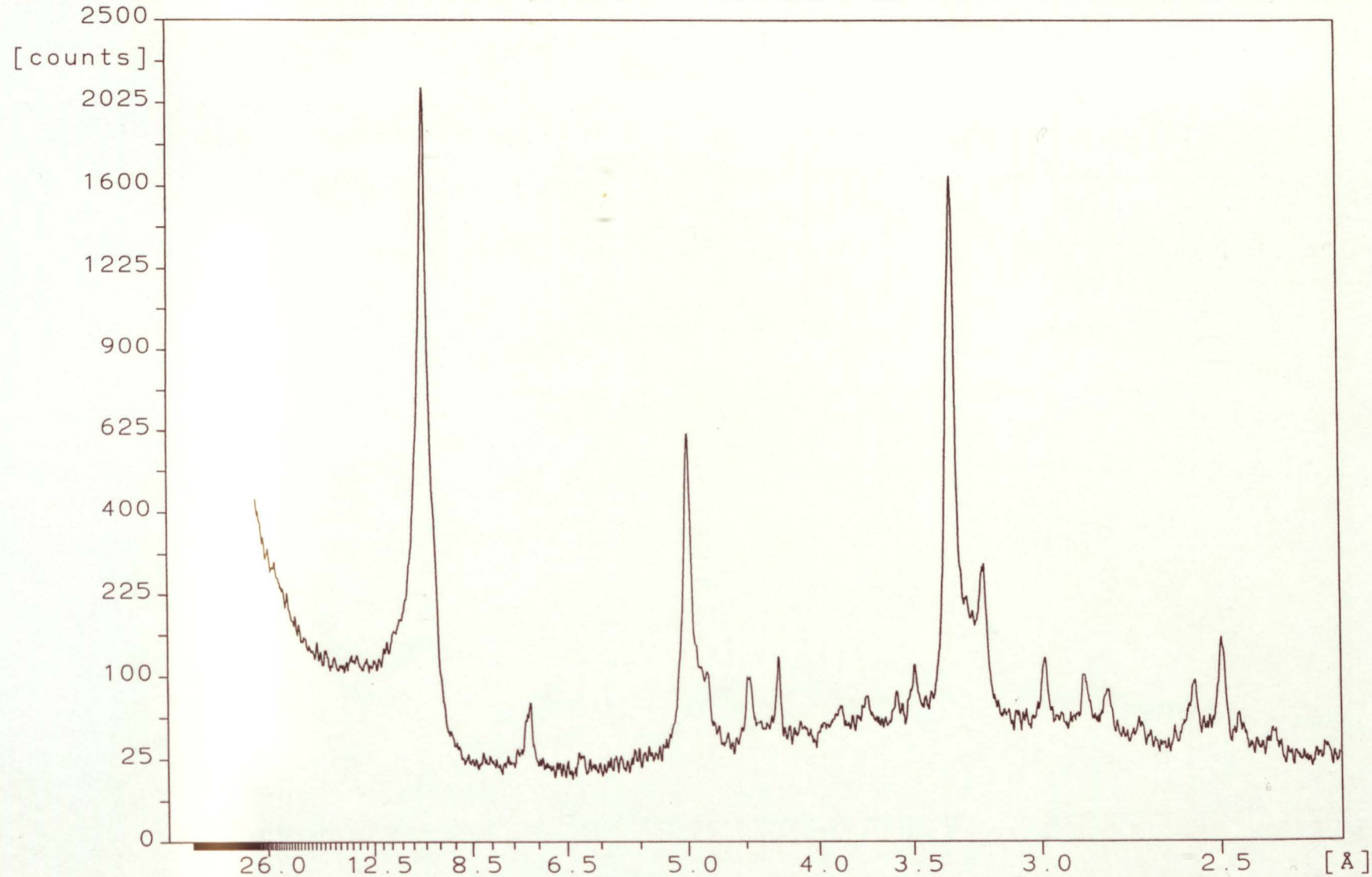

Sample identification: ss32 (spur 4 ss3)
24-May-2004 13:31
2500
[counts]
2025
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR132.SM

A42


Sample identification: ss33 (spur 4 ss4)
24-May-2004 13:32
2500
[counts]
2025
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR133.SM

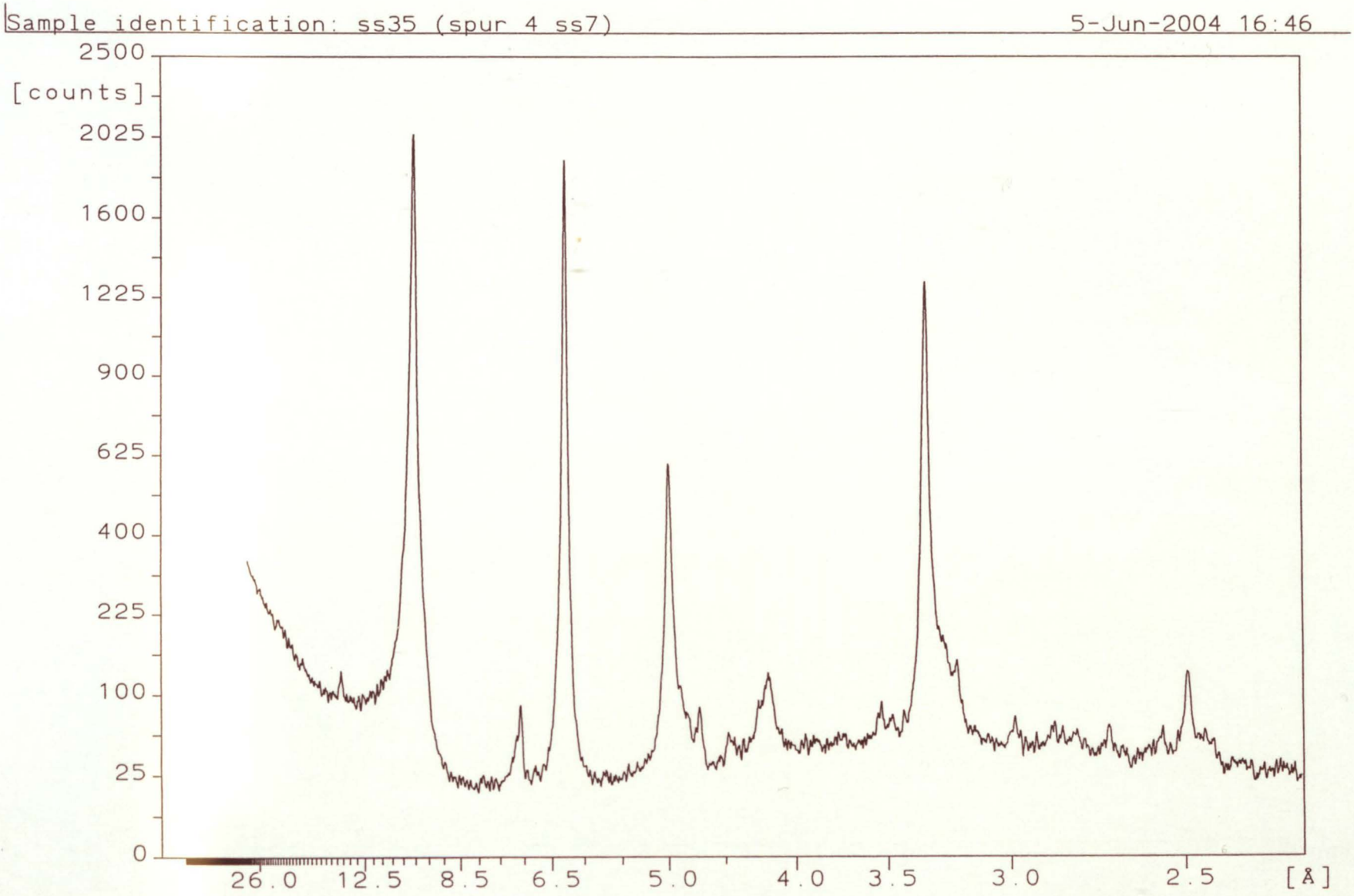
A43

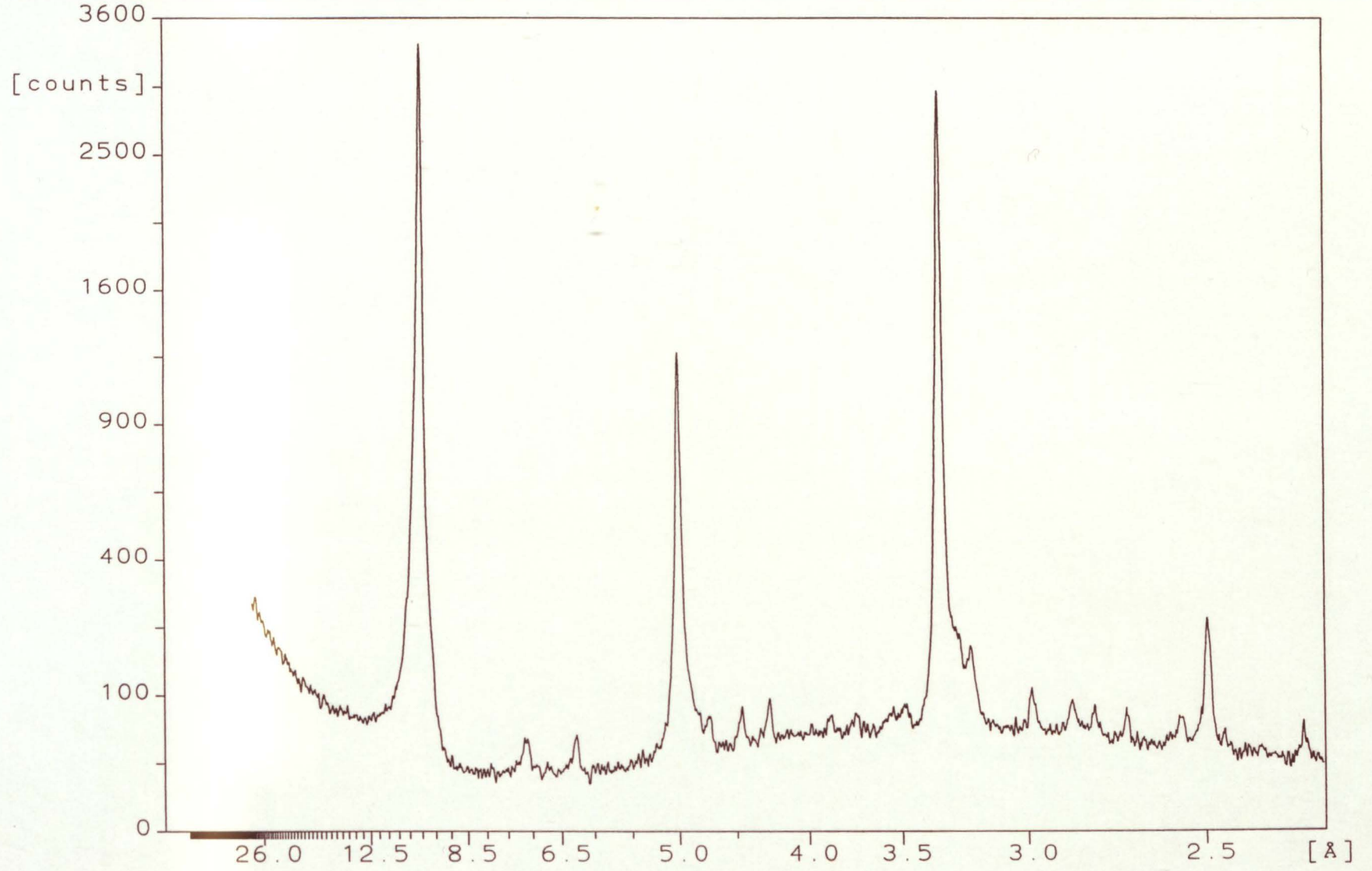
Sample identification: ss34 (spur 4 ss5) 24-May-2004 13:32



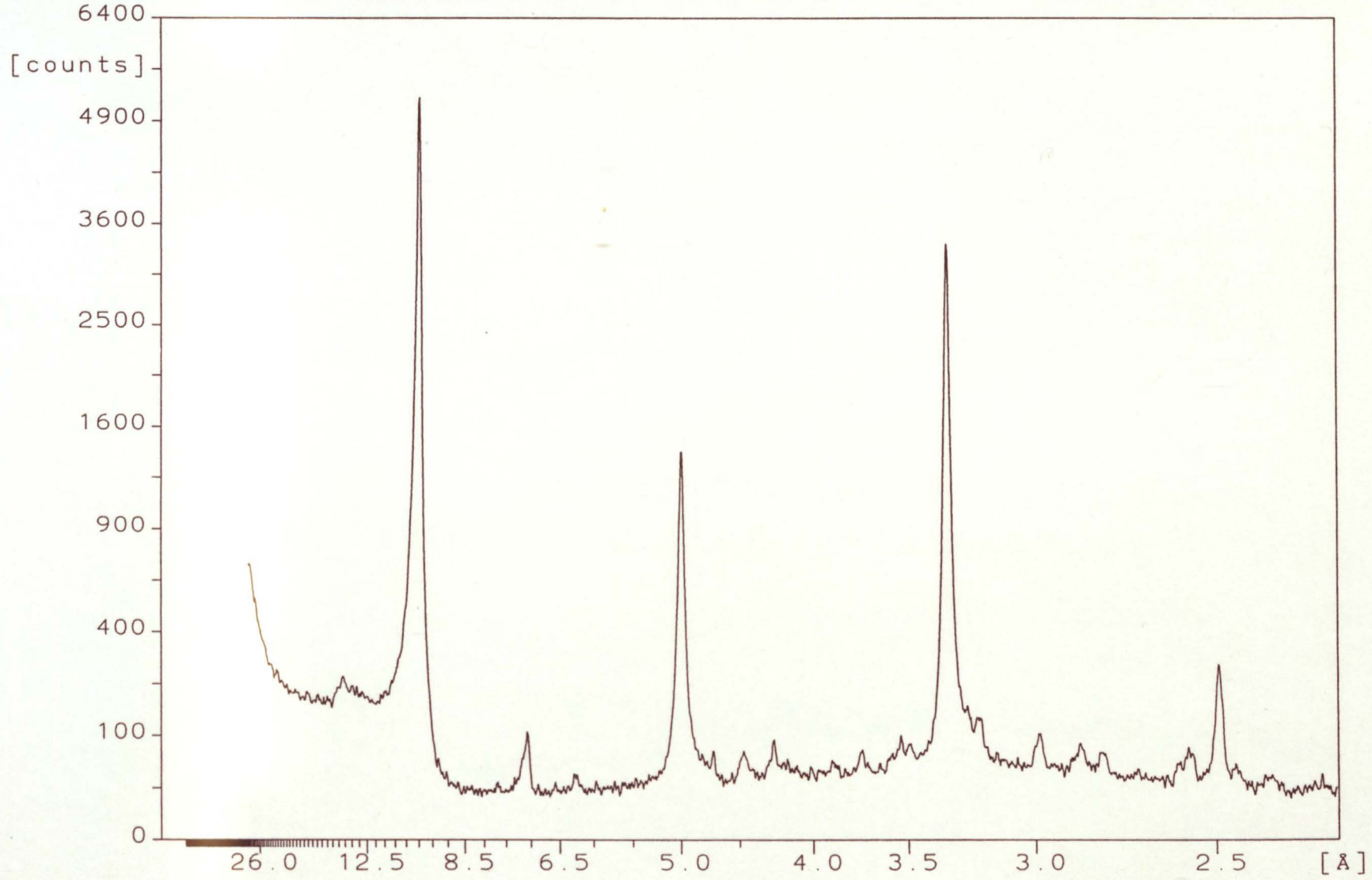
AR134.SM

A44

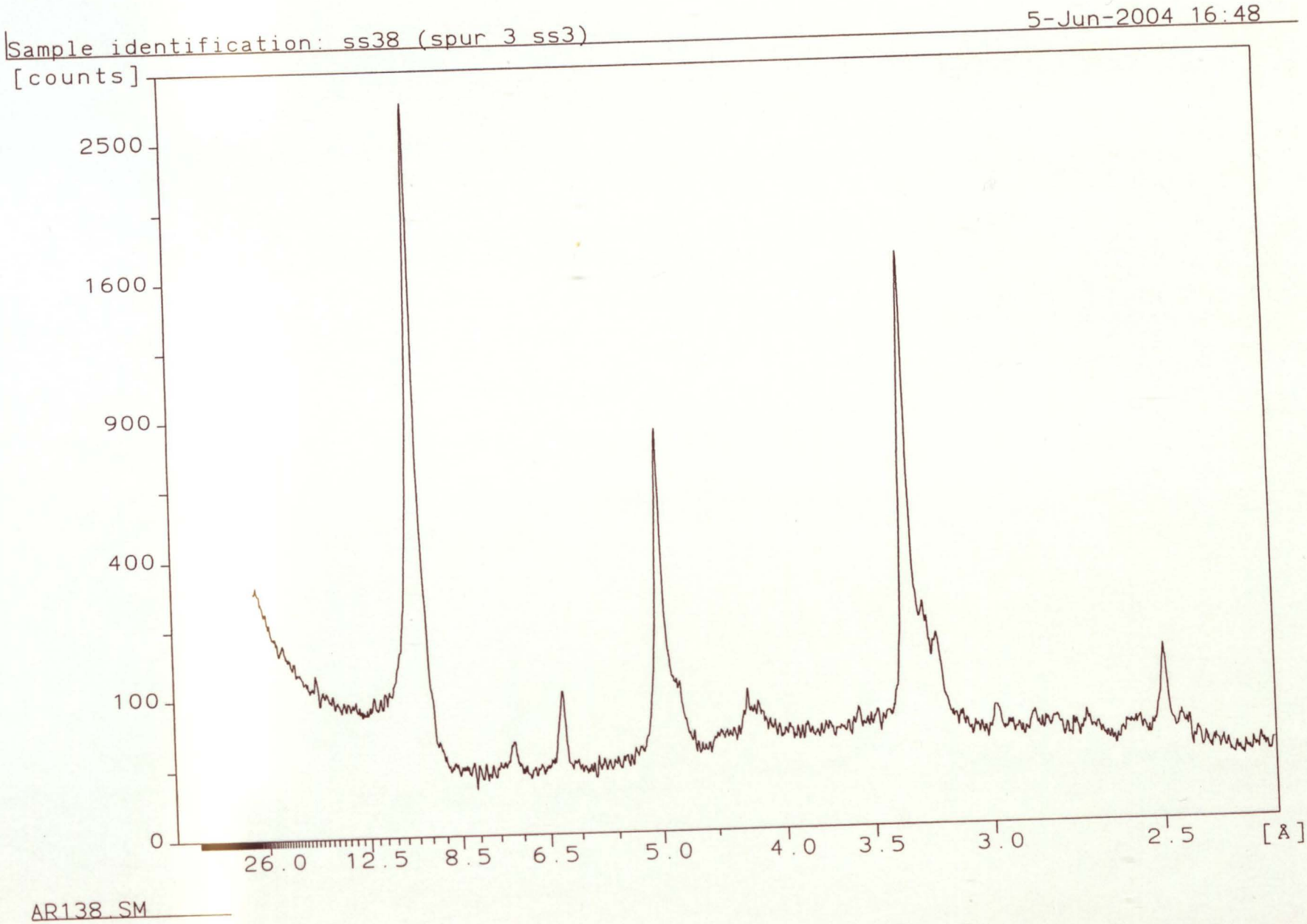

Sample identification: ss35 (spur 4 ss7)
5-Jun-2004 16:46
2500
[counts]
2025
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR135.SM

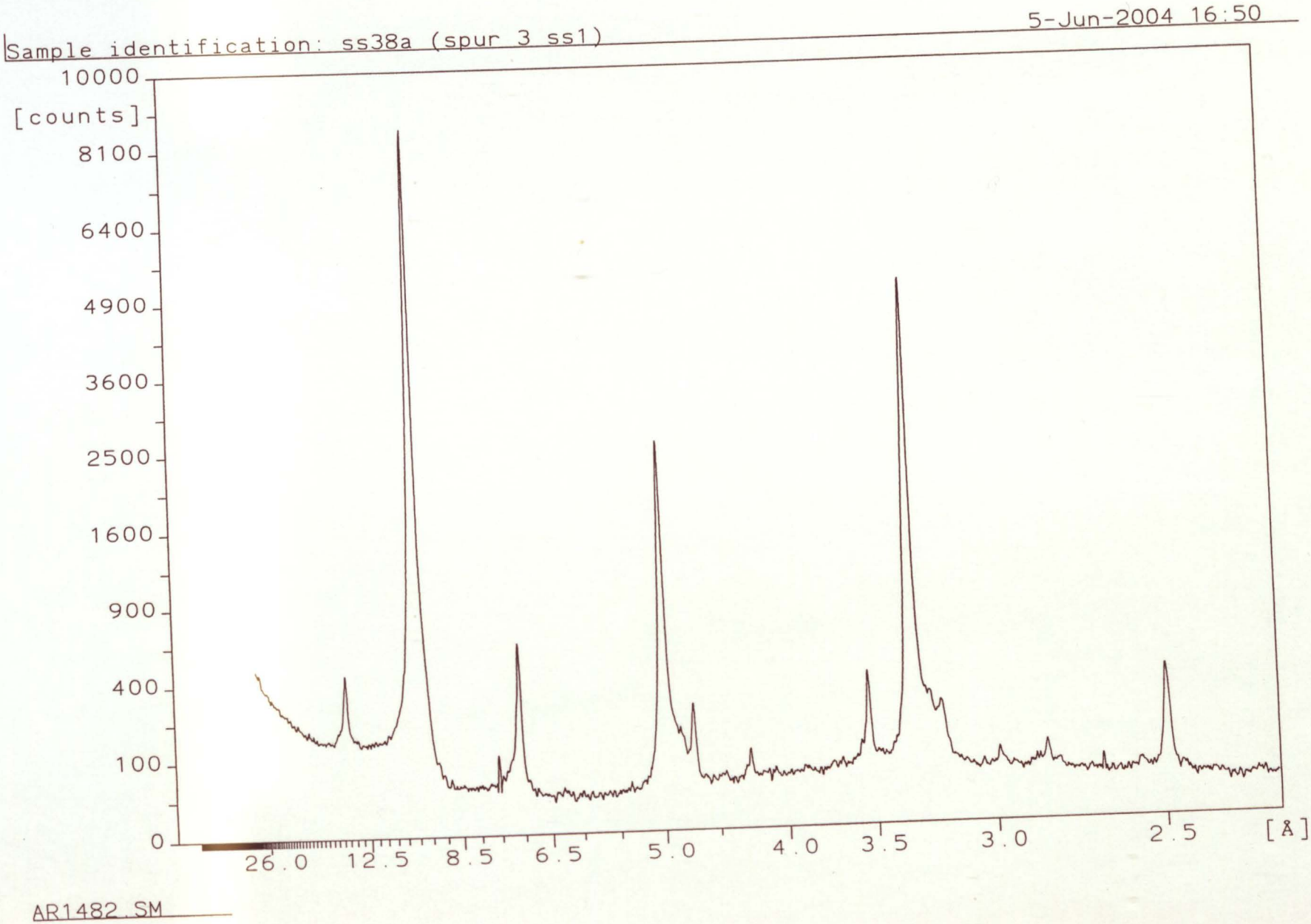

Sample identification: ss36 (spur 4 ss6)
5-Jun-2004 16:47
3600
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR136.SM

Sample identification: ss37 (spur 3 ss4) 5-Jun-2004 16:48

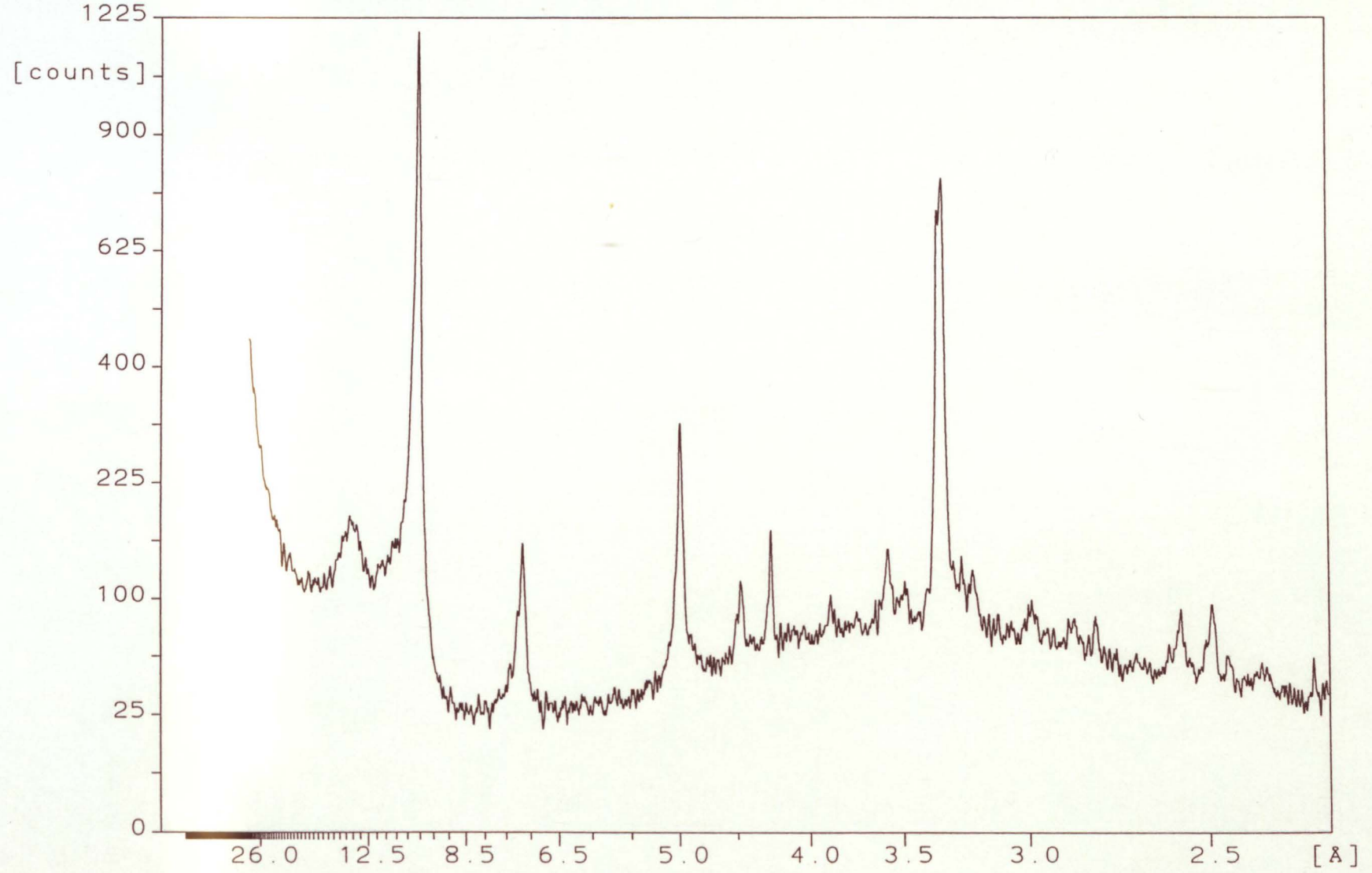


AR137.SM

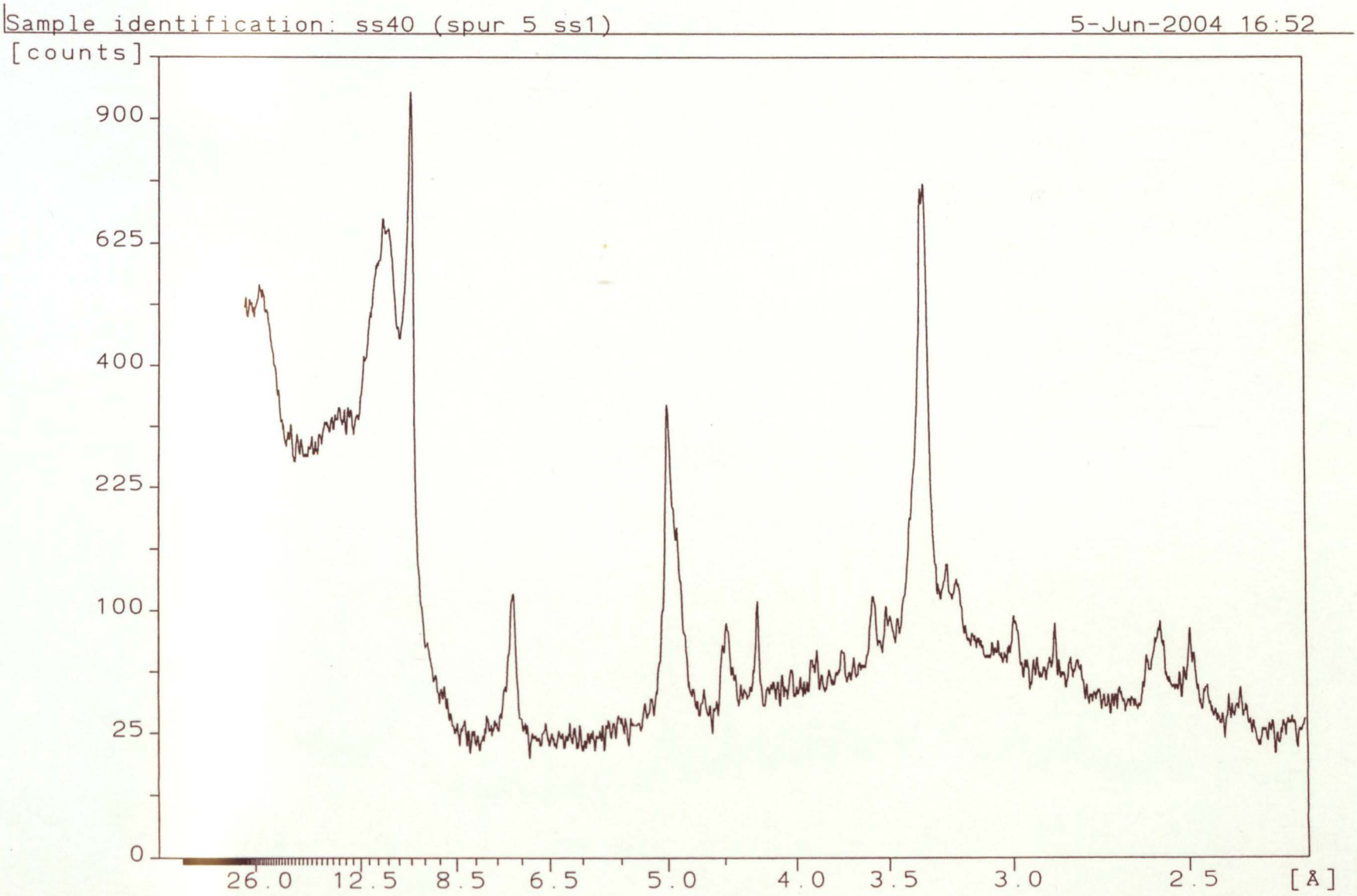

Sample identification: ss38 (spur 3 ss3)
5-Jun-2004 16:48
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR138.SM


Sample identification: ss38a (spur 3 ss1)
5-Jun-2004 16:50
10000
[counts]
8100
6400
4900
3600
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR1482.SM

A49

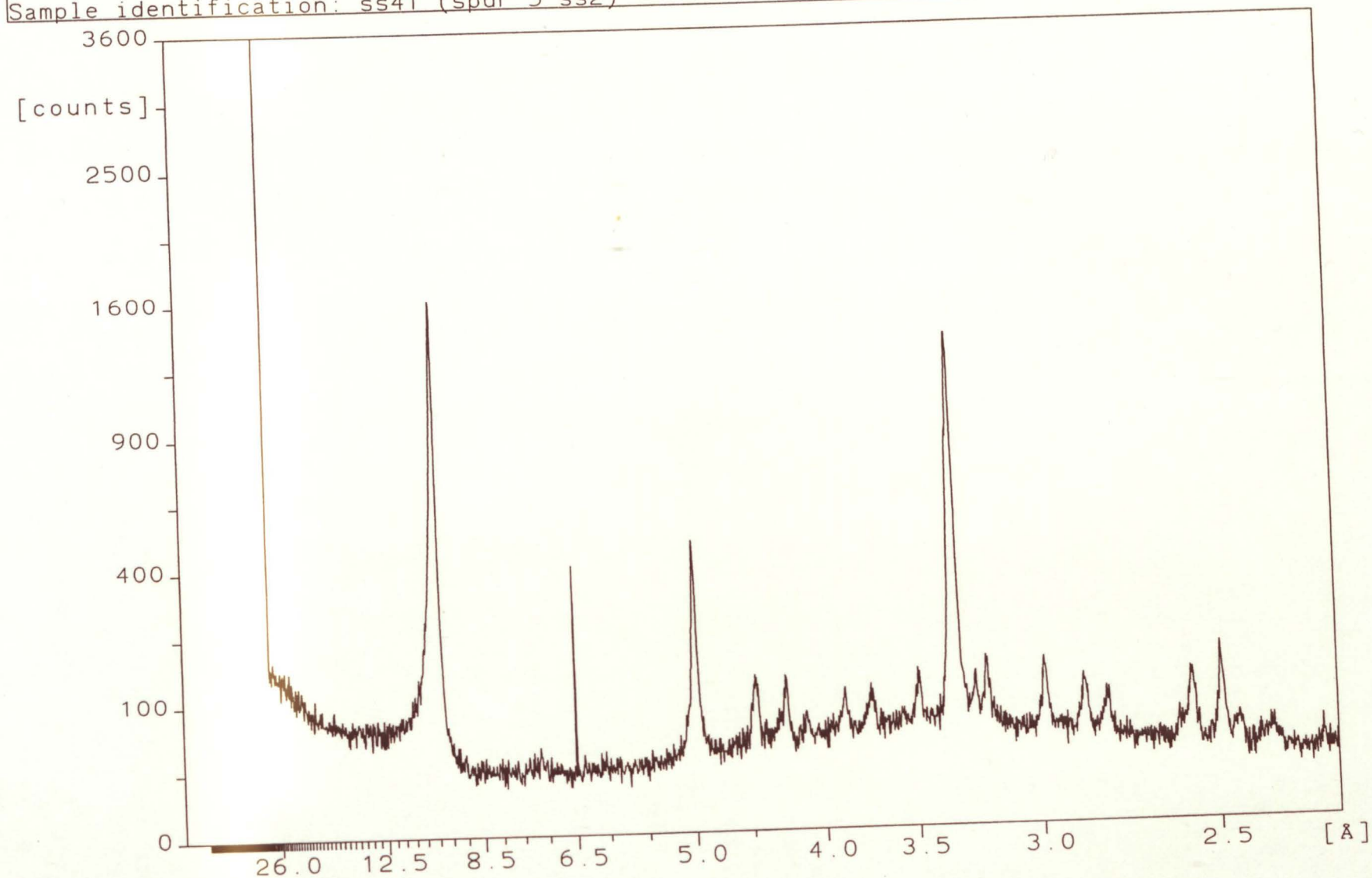

Sample identification: ss39 (spur 3 ss2)
5-Jun-2004 16:51
1225
[counts]
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR139.SM

A50


Sample identification: ss40 (spur 5 ss1)
5-Jun-2004 16:52
[counts]
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR140.SM

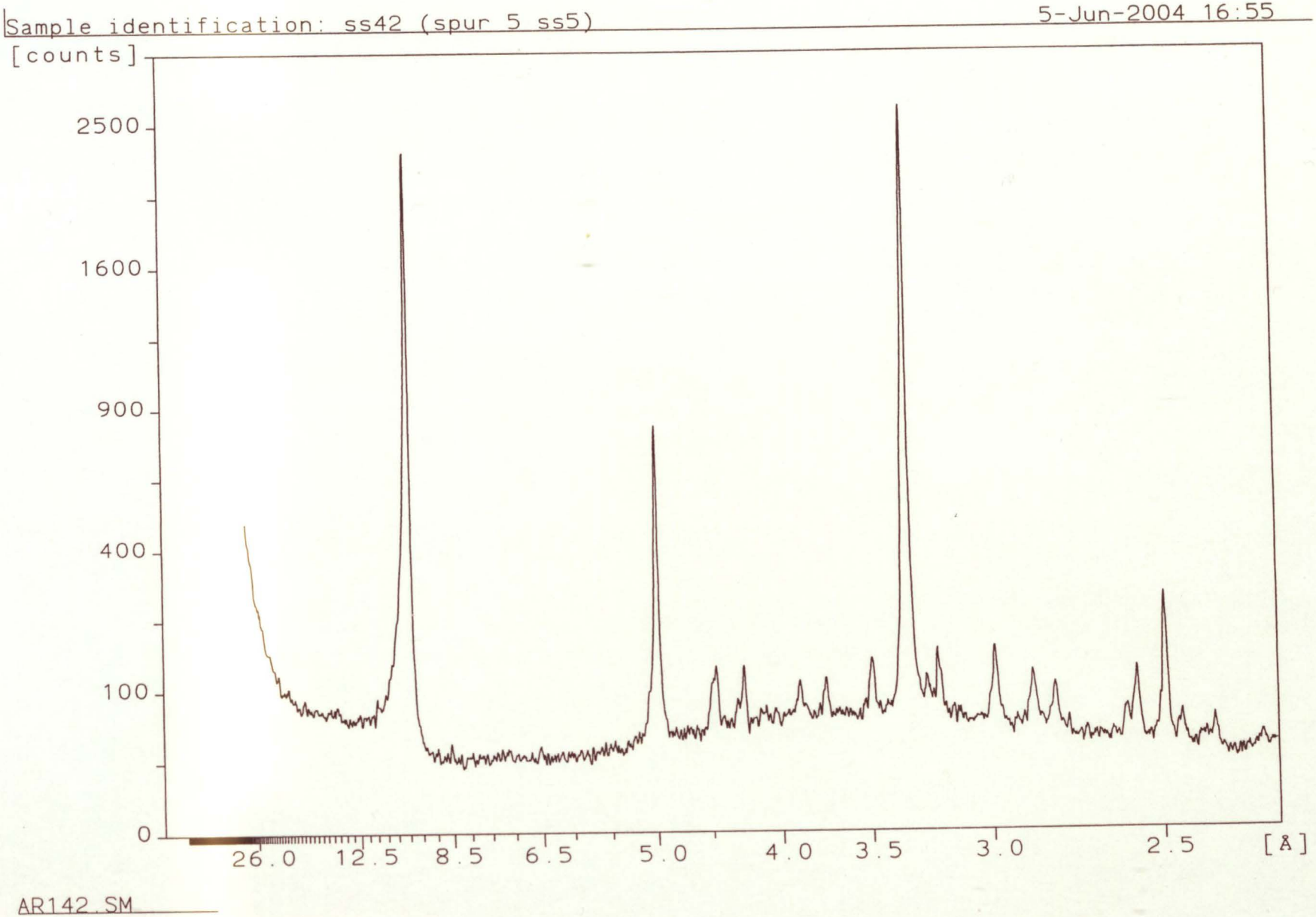
Sample identification: ss41 (spur 5 ss2)

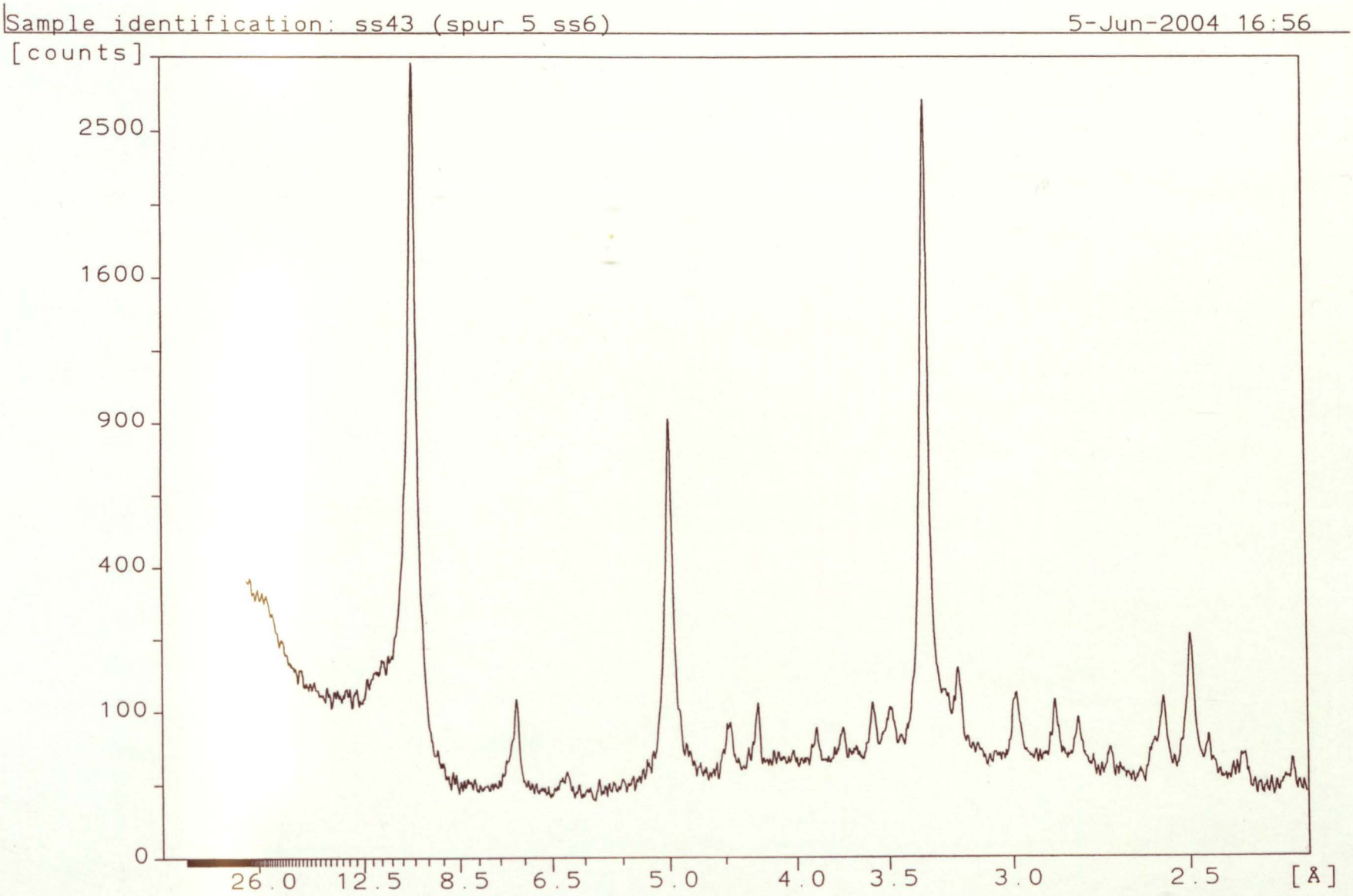
5-Jun-2004 16:55

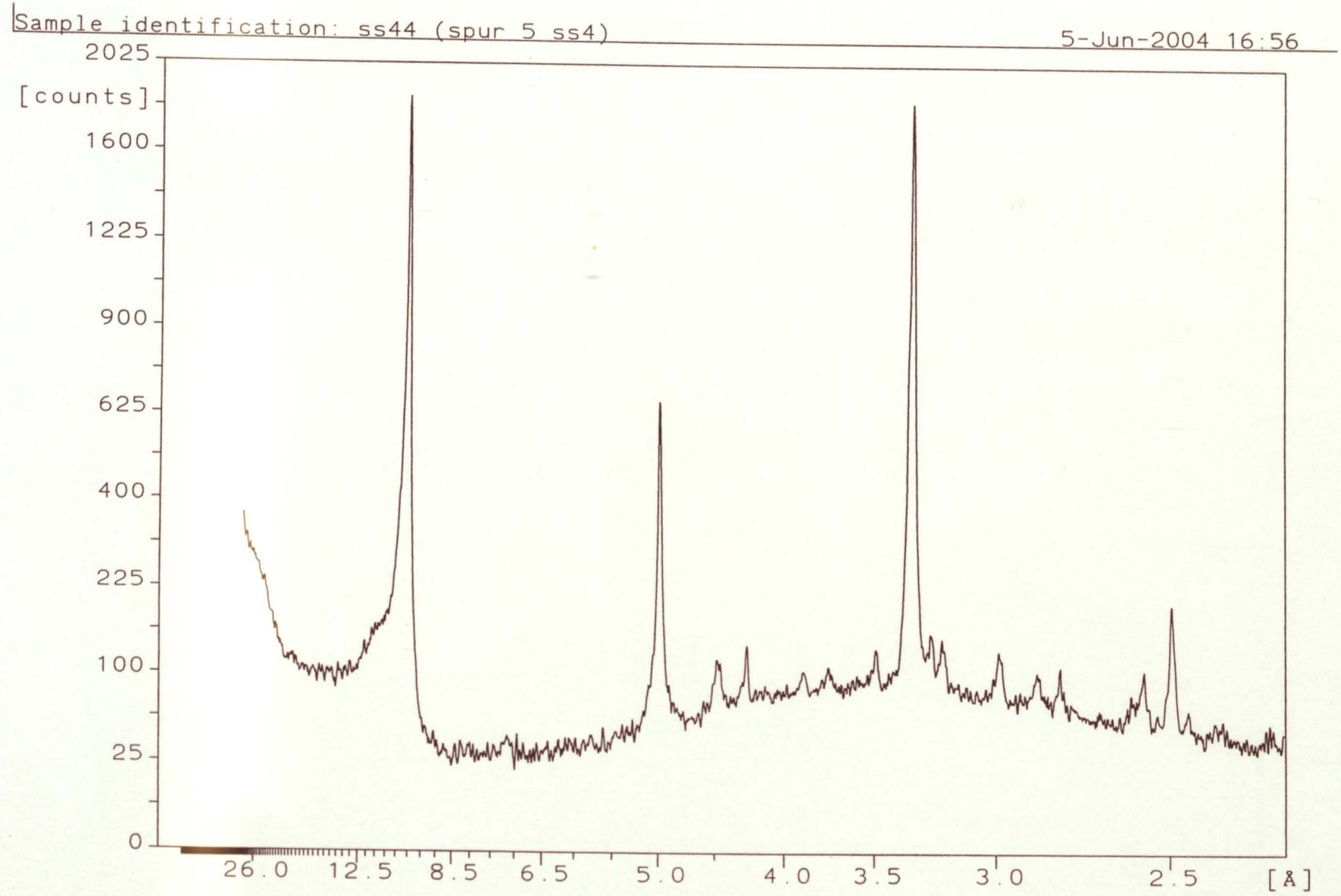


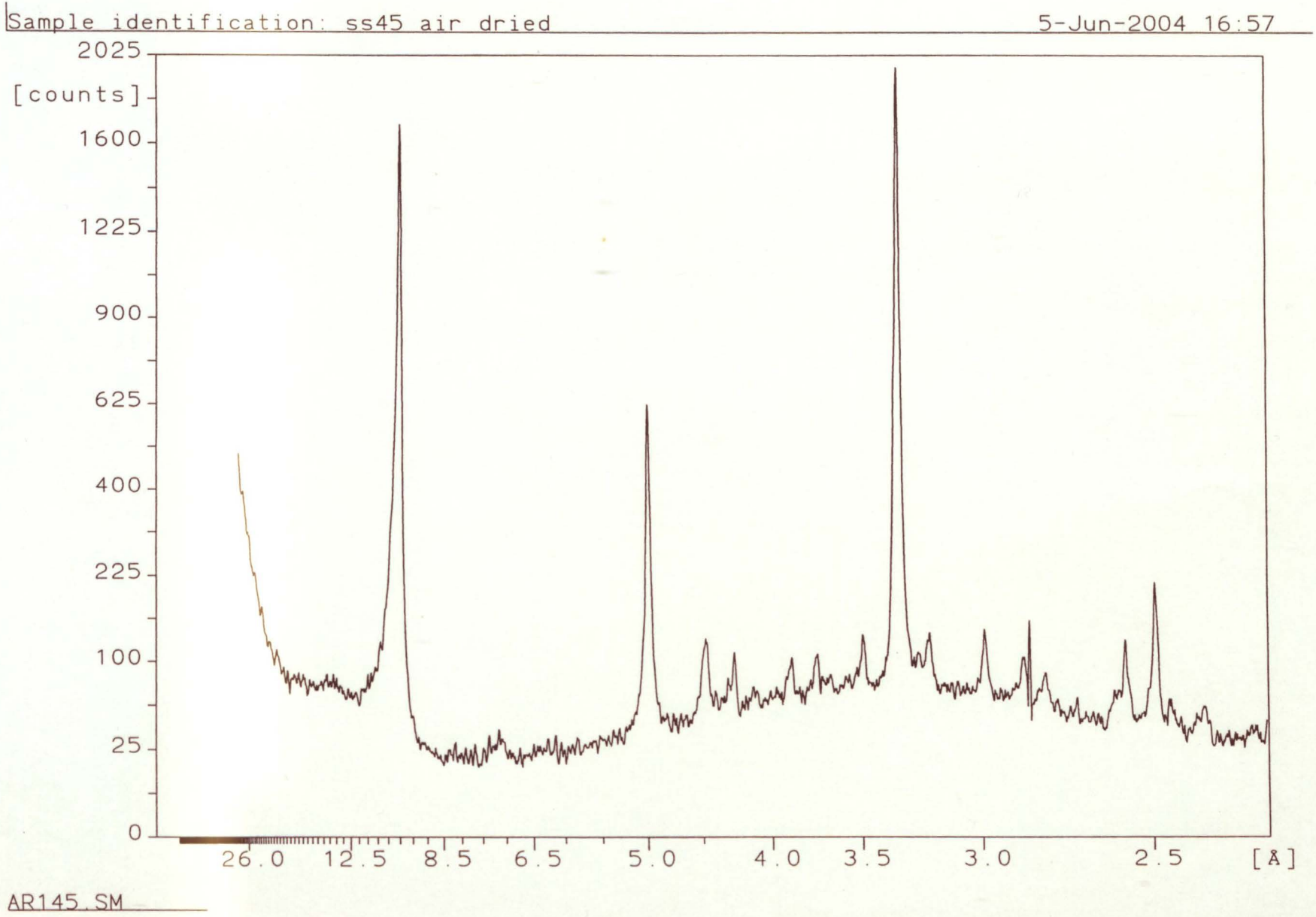
A52

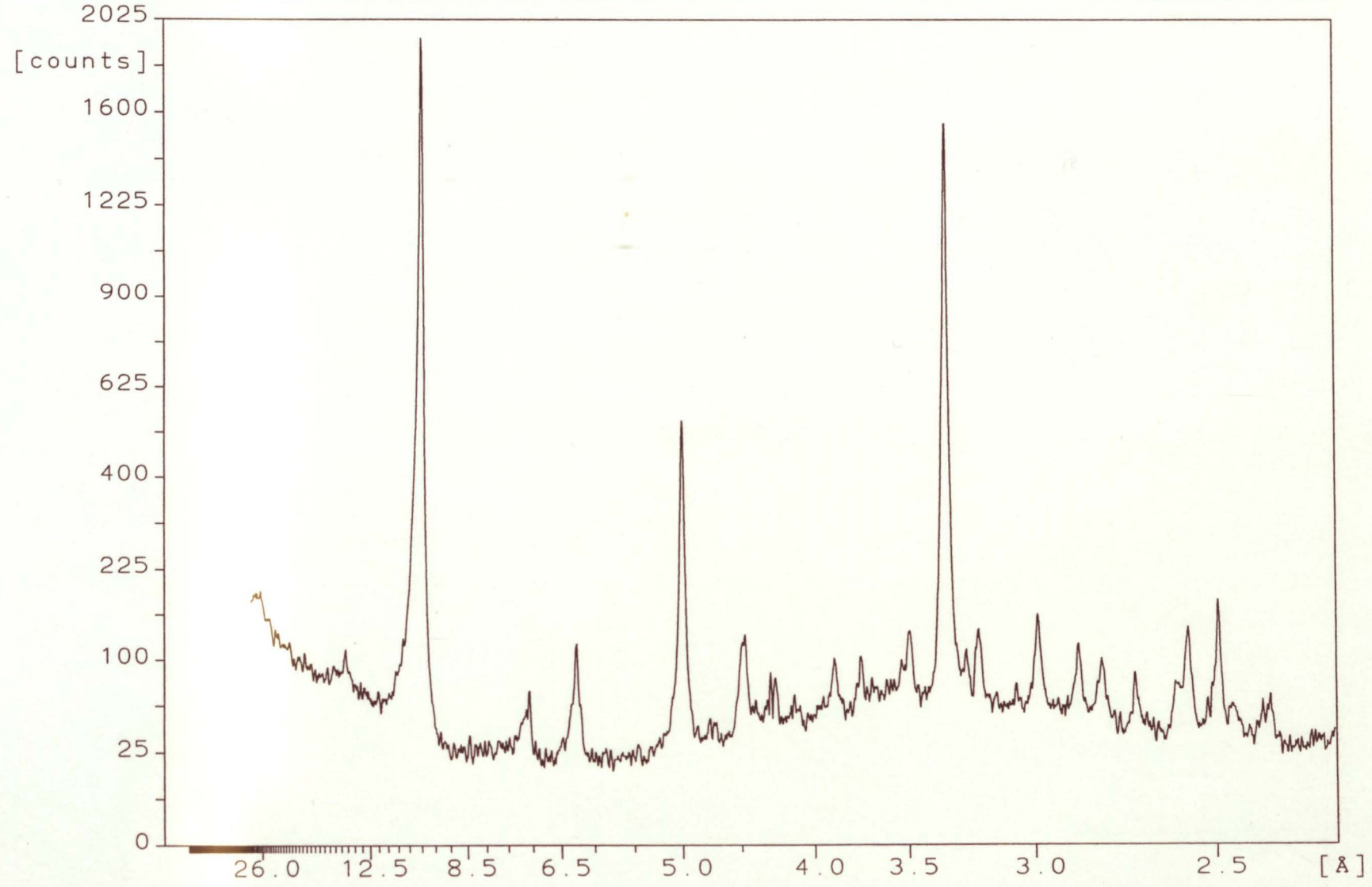
AR141.RD

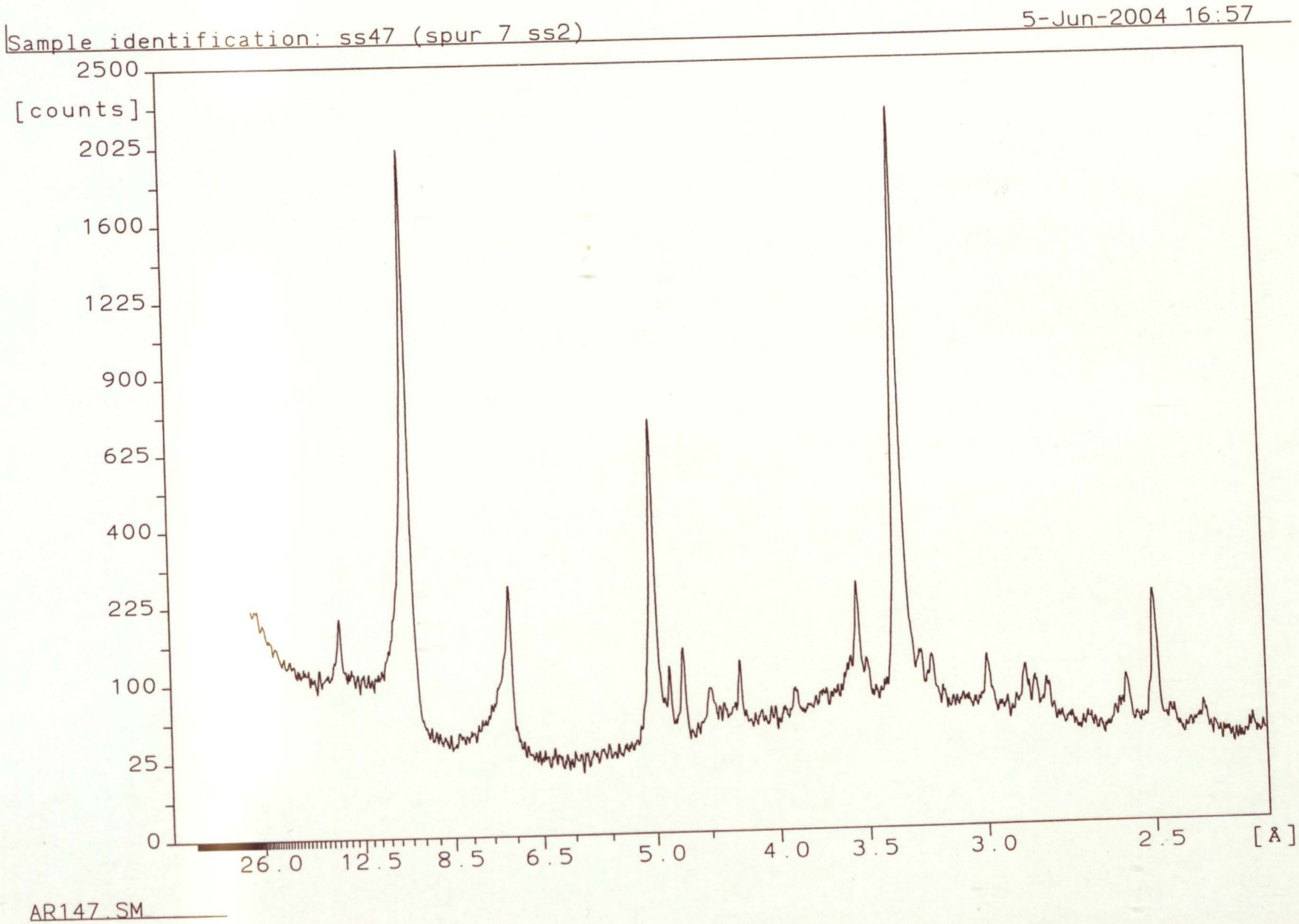

Sample identification: ss42 (spur 5 ss5)
5-Jun-2004 16:55
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR142.SM

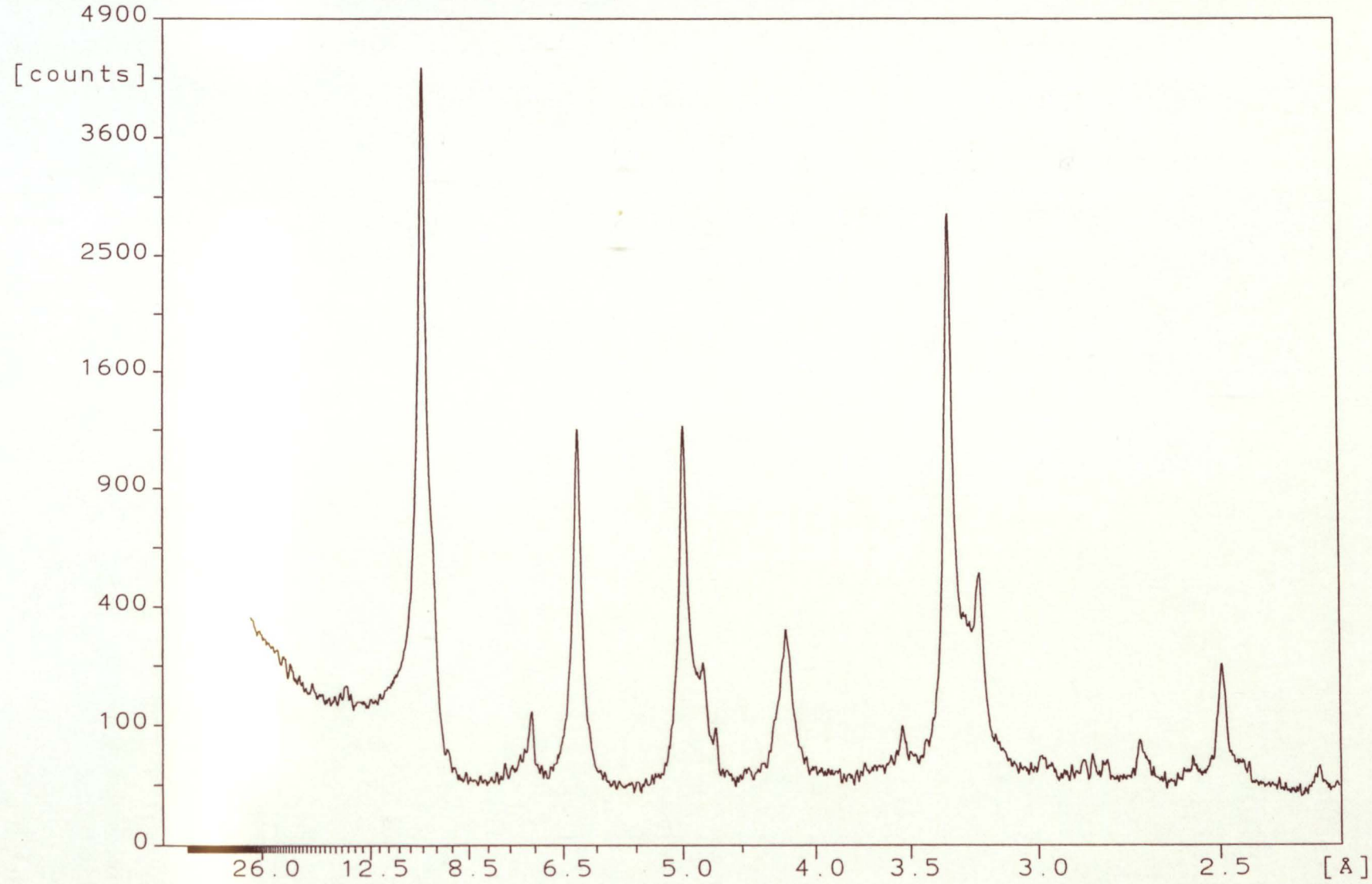

Sample identification: ss43 (spur 5 ss6)
5-Jun-2004 16:56
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR143.SM


Sample identification: ss44 (spur 5 ss4)
5-Jun-2004 16:56
2025
[counts]
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR144.SM


Sample identification: ss45 air dried
5-Jun-2004 16:57
2025
[counts]
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR145.SM

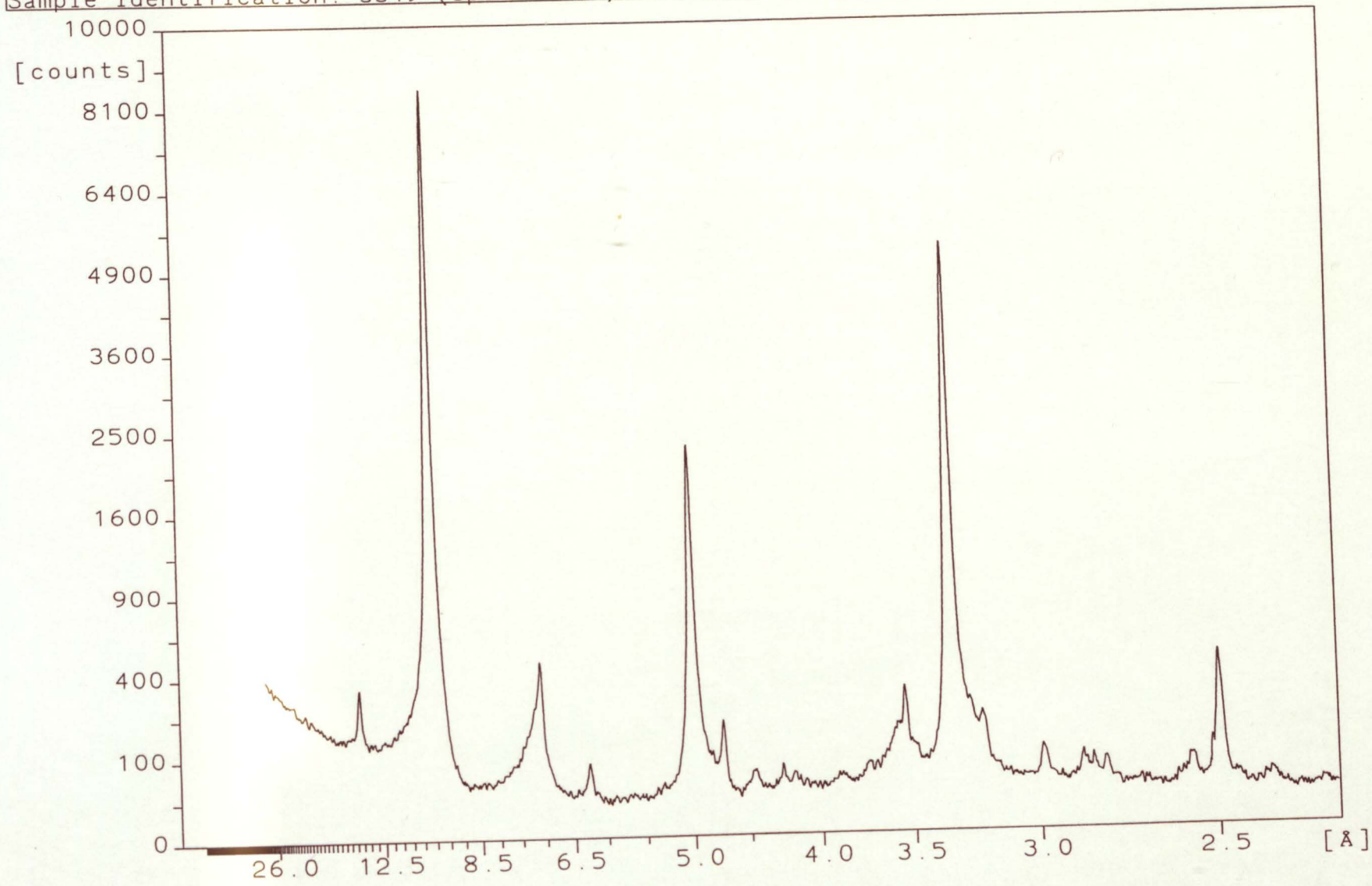

Sample identification: ss46 air dried
5-Jun-2004 16:57
2025
[counts]
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR146.SM


Sample identification: ss47 (spur 7 ss2)
5-Jun-2004 16:57
2500
[counts]
2025
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR147.SM


Sample identification: ss48 (spur 7 ss3)
5-Jun-2004 16:58
4900
[counts]
3600
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR1481.SM

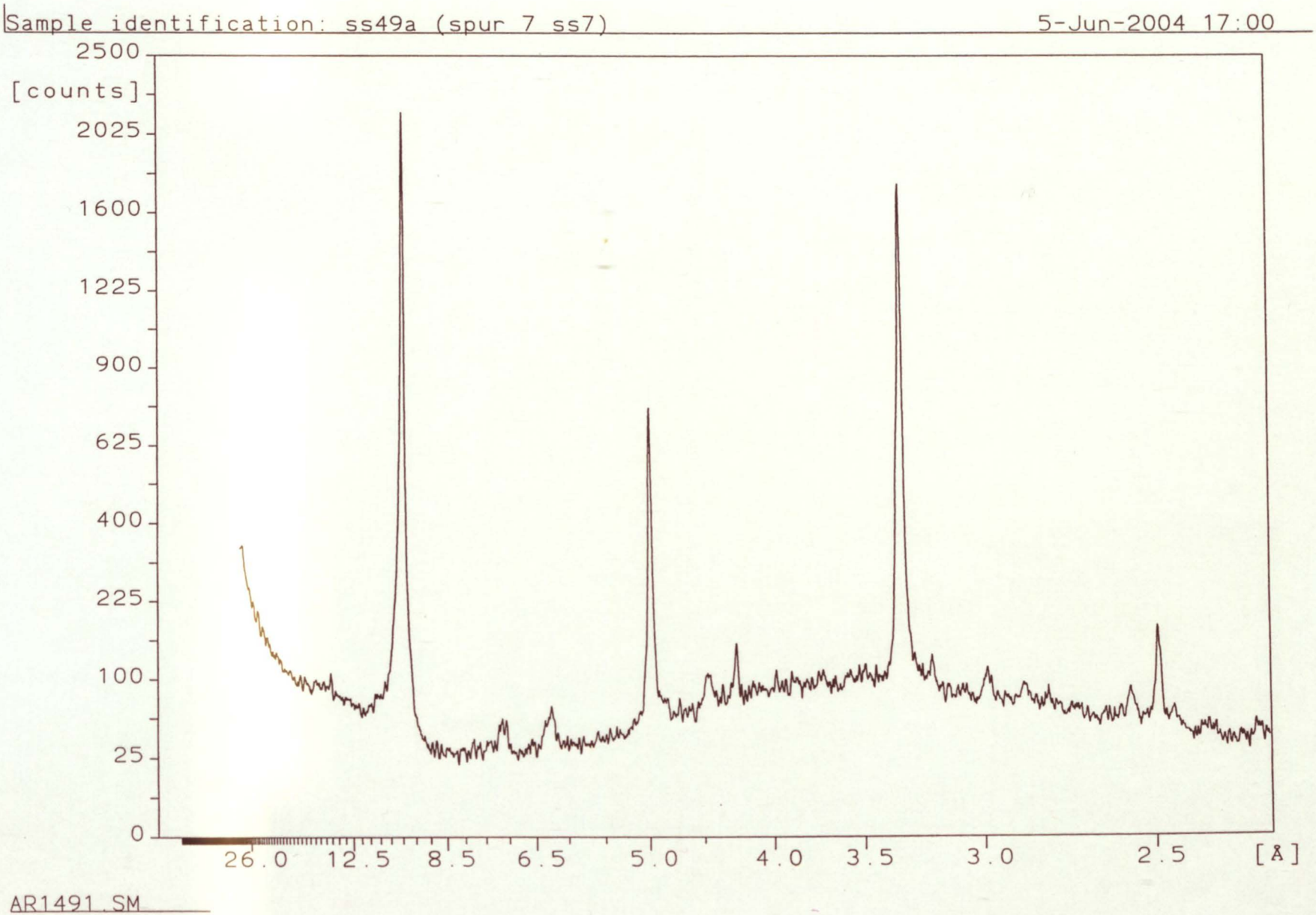
Sample identification: ss49 (spur 7 ss4)

5-Jun-2004 16:59



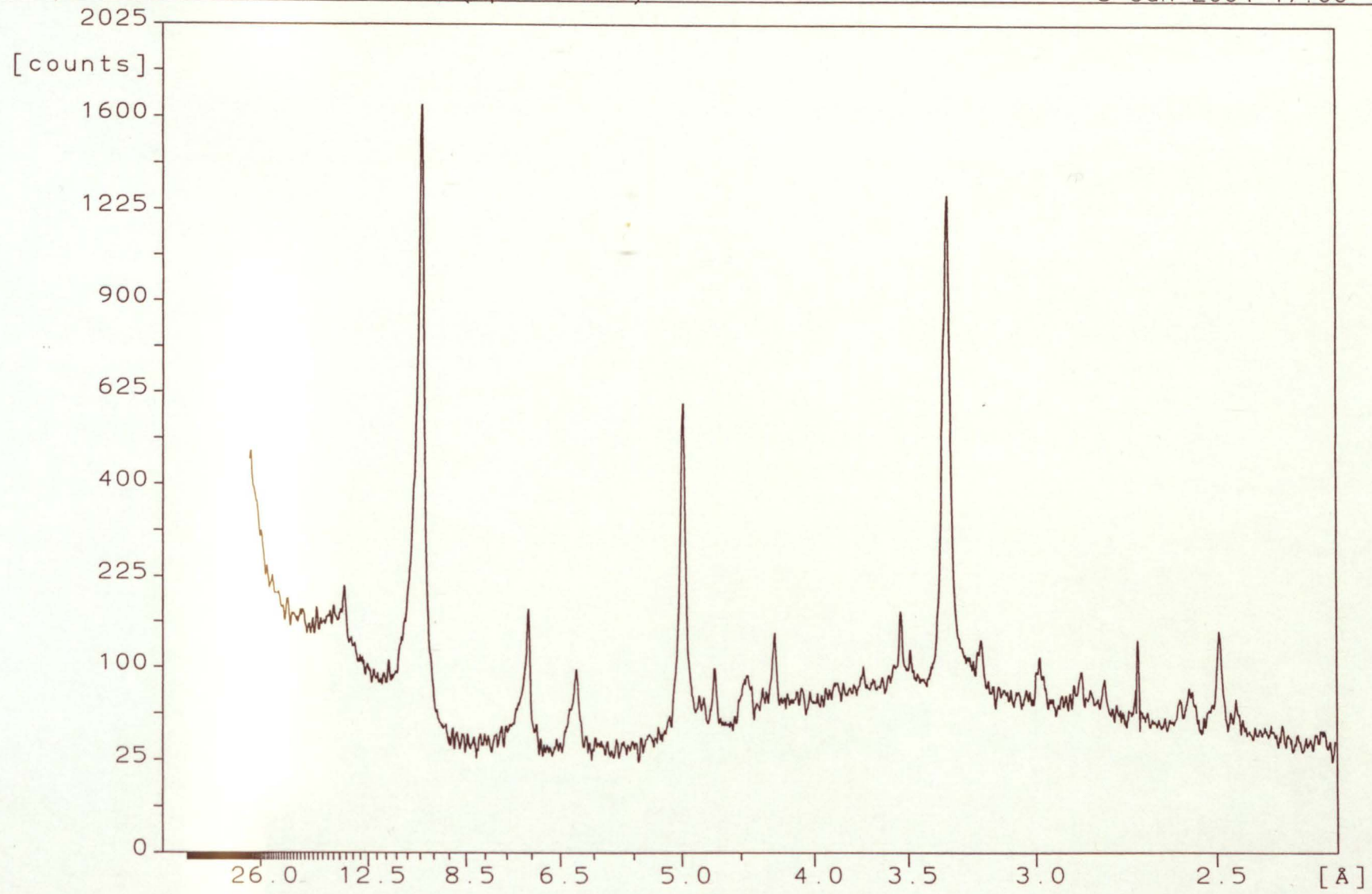
AR149.SM

A60


Sample identification: ss49a (spur 7 ss7)
5-Jun-2004 17:00
2500
[counts]
2025
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR1491.SM

A61

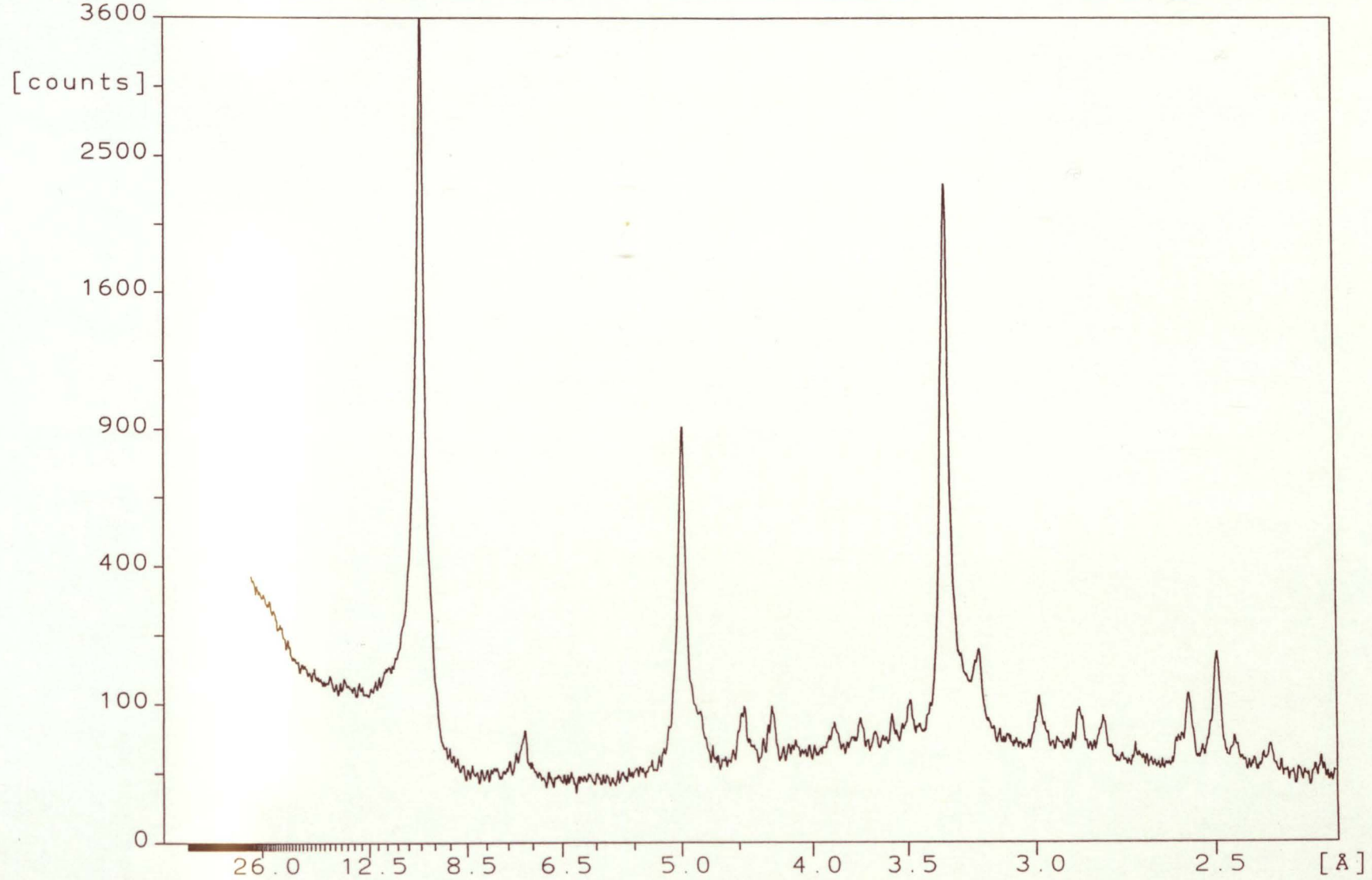
Sample identification: ss49b (spur 7 ss6) 5-Jun-2004 17:00



AR1492.SM

A62

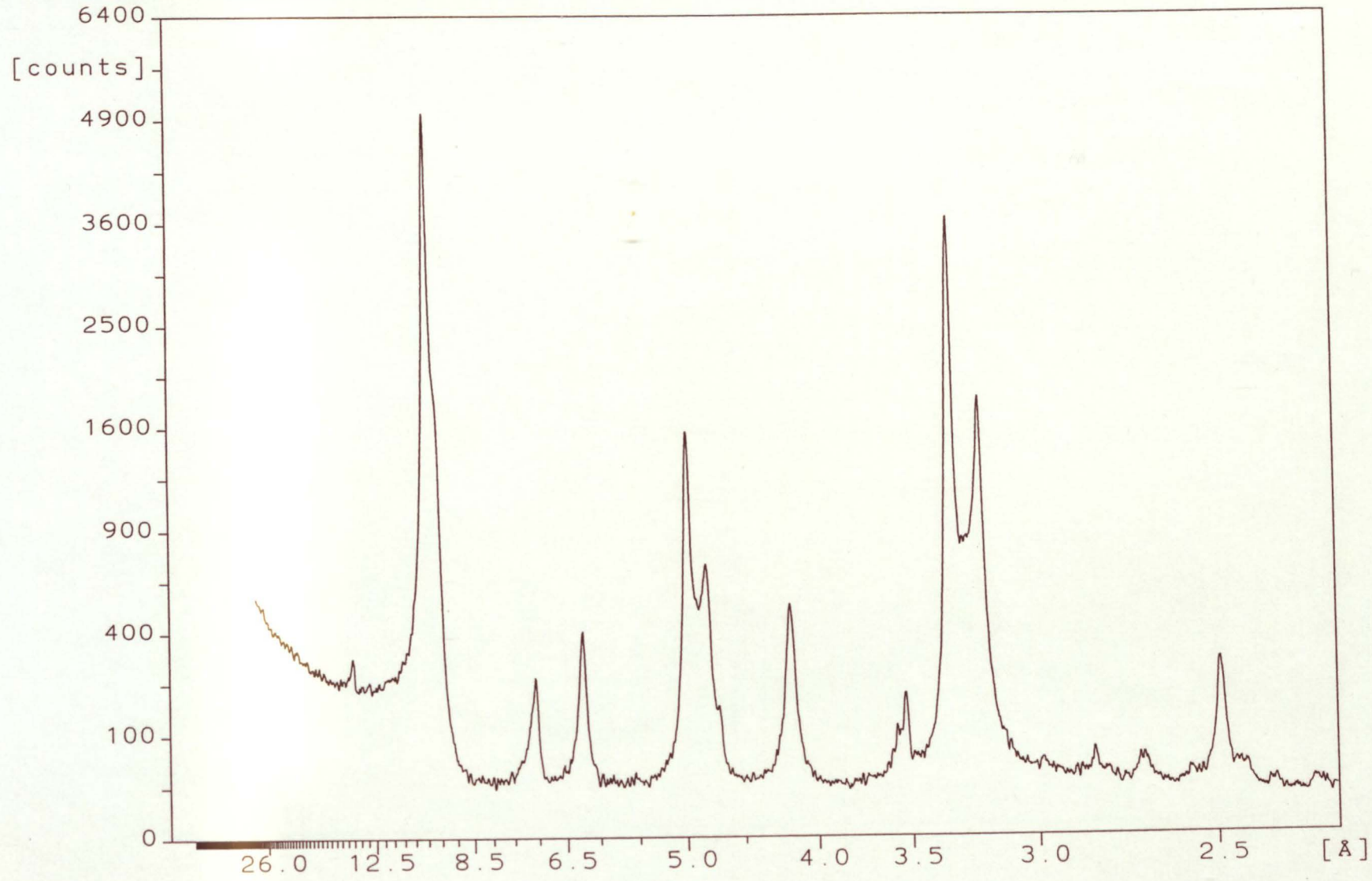
Sample identification: ss50 (spur 6 ss5) 5-Jun-2004 17:01



AR150.SM

Sample identification: ss51 (spur 6 ss3)

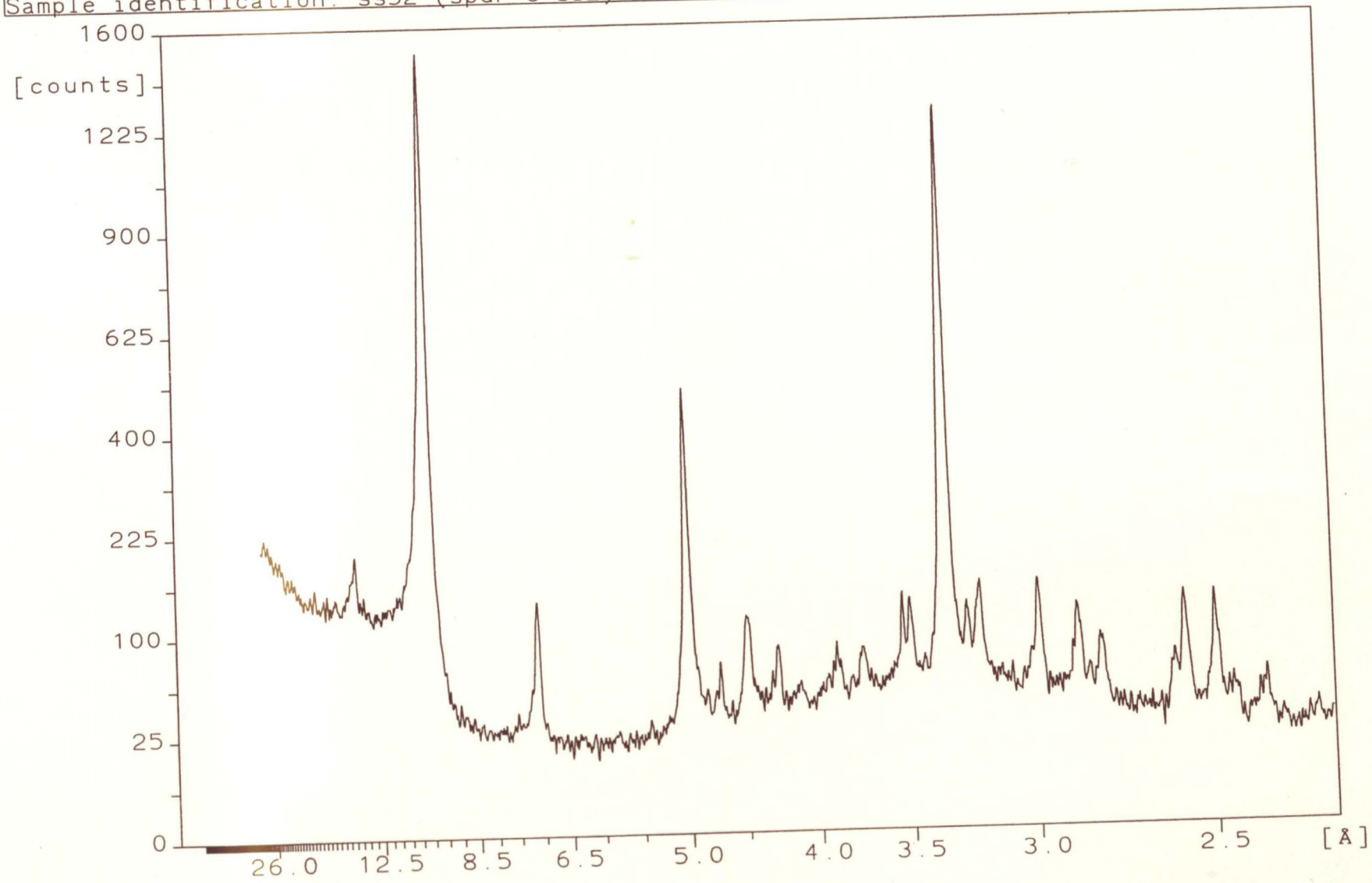
5-Jun-2004 17:01



AR151.SM

Sample identification: ss52 (spur 6 ss2)

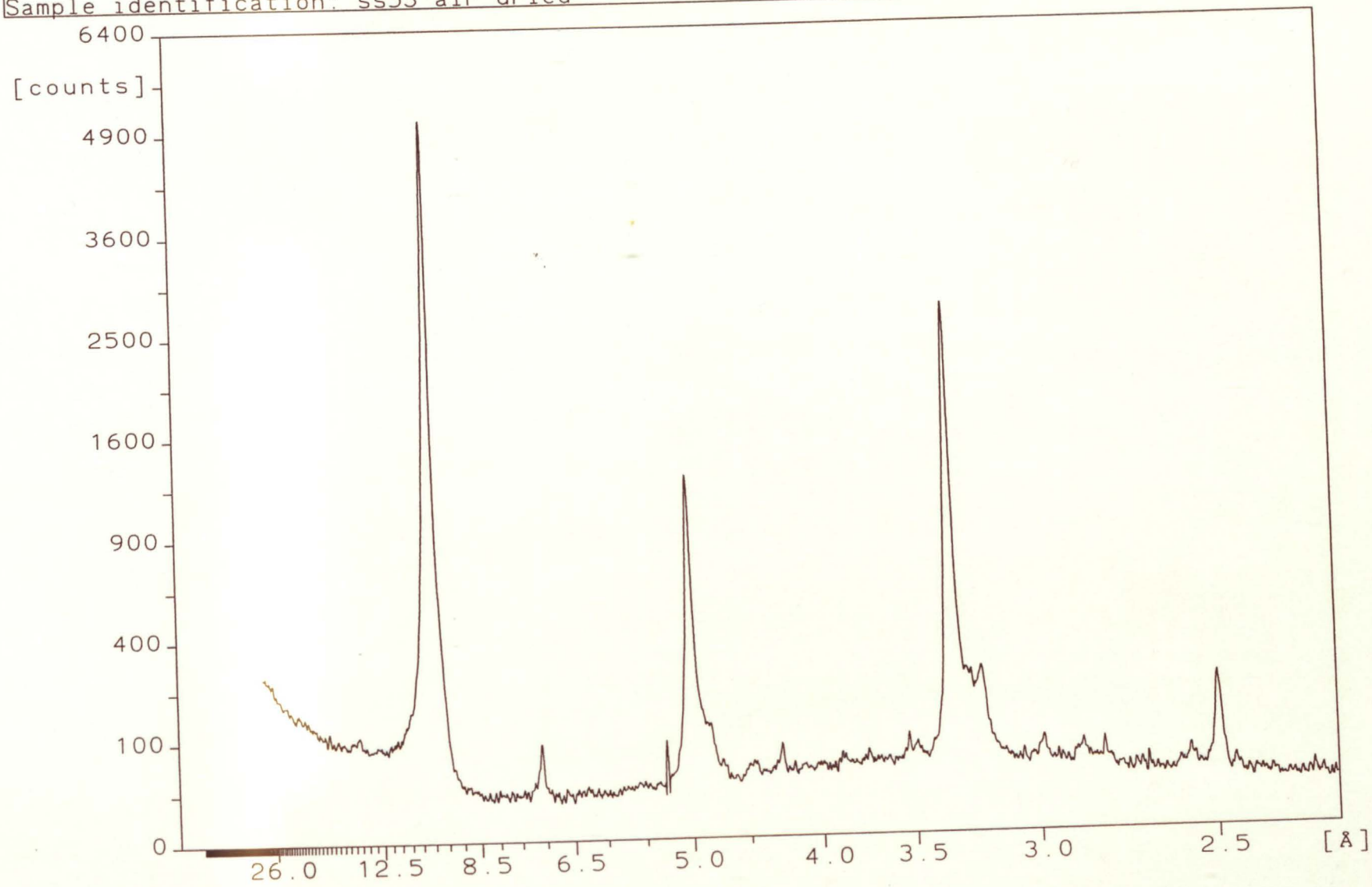
5-Jun-2004 17:01



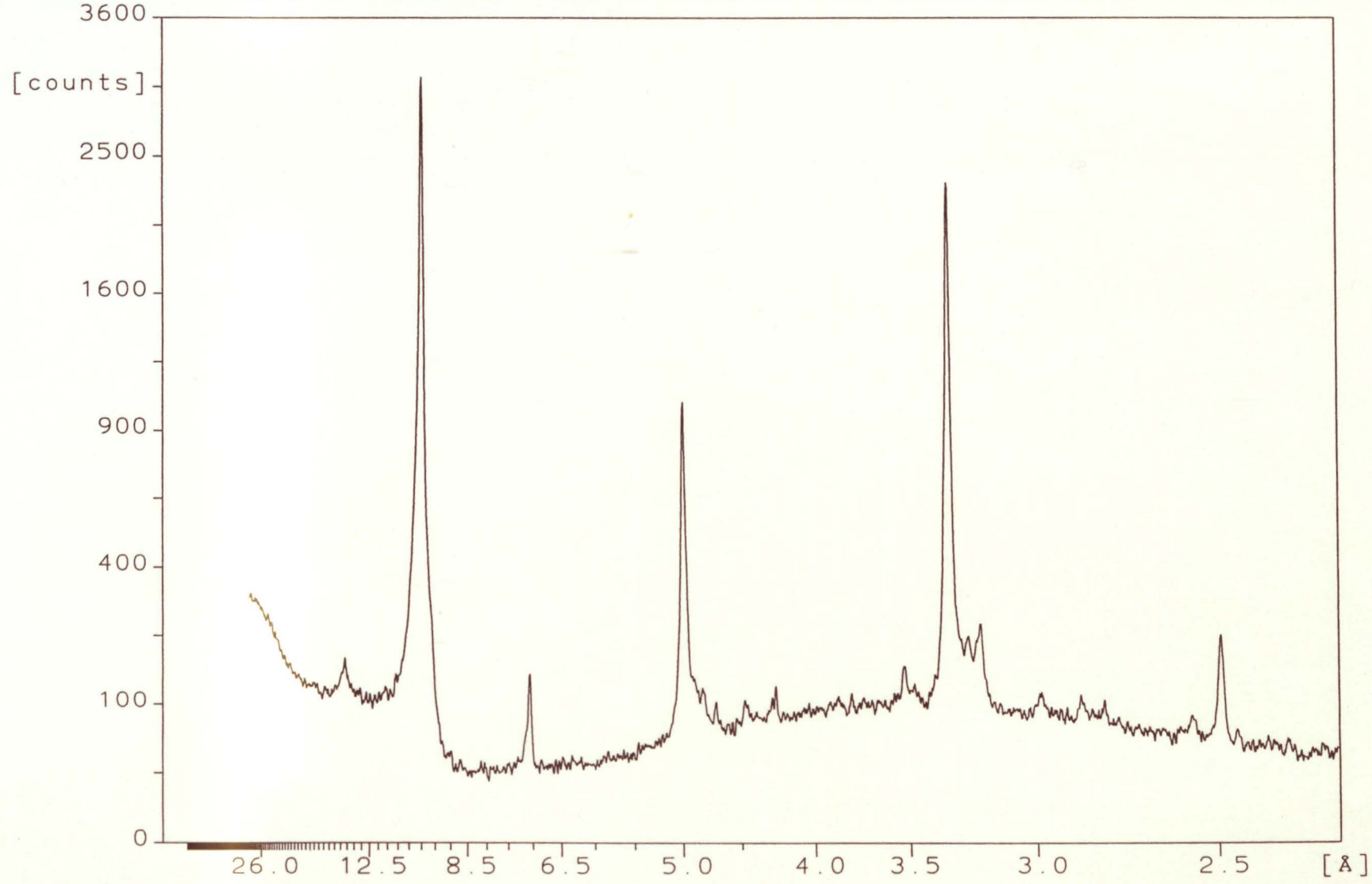
AR152.SM

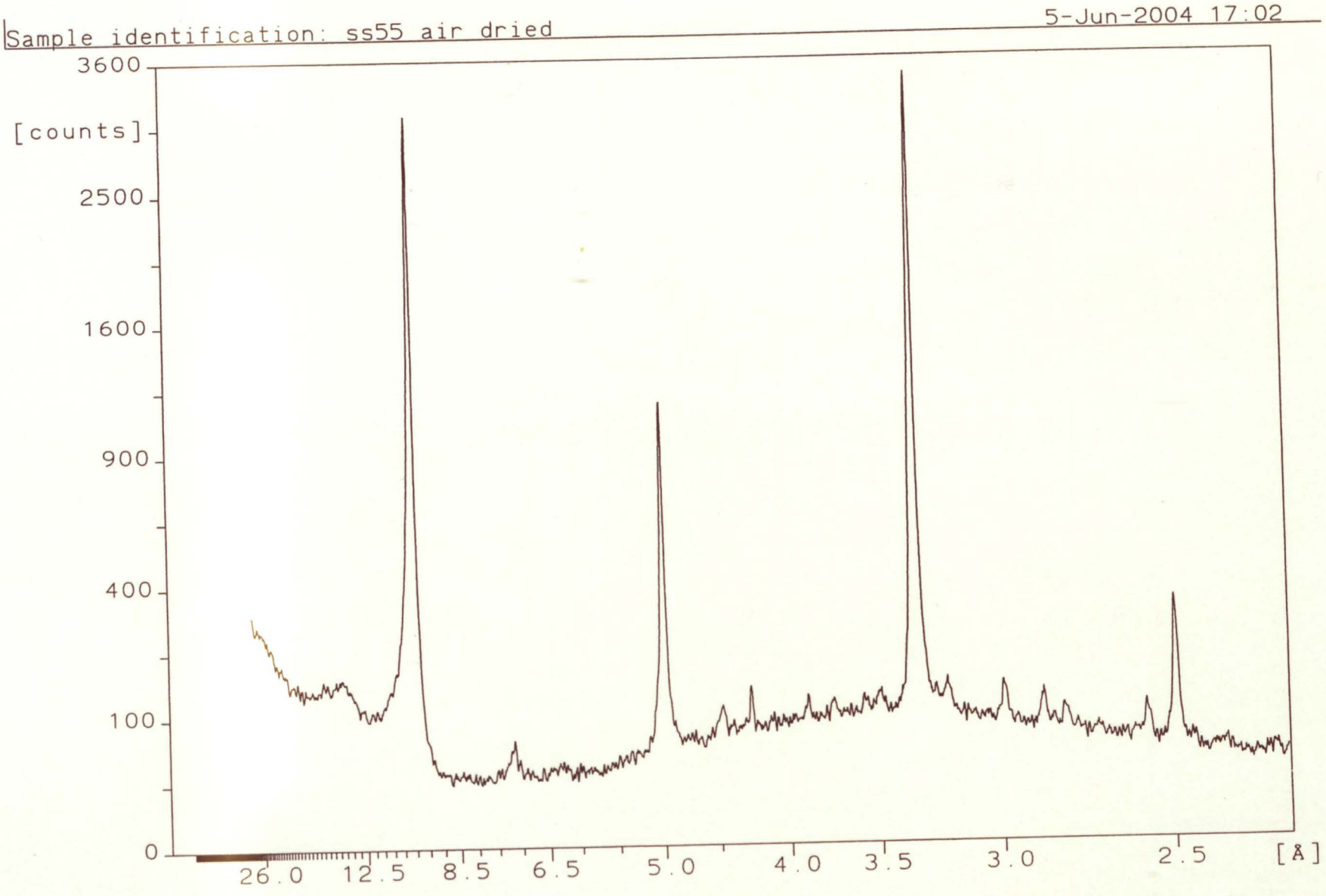
Sample identification: ss53 air dried

5-Jun-2004 17:02



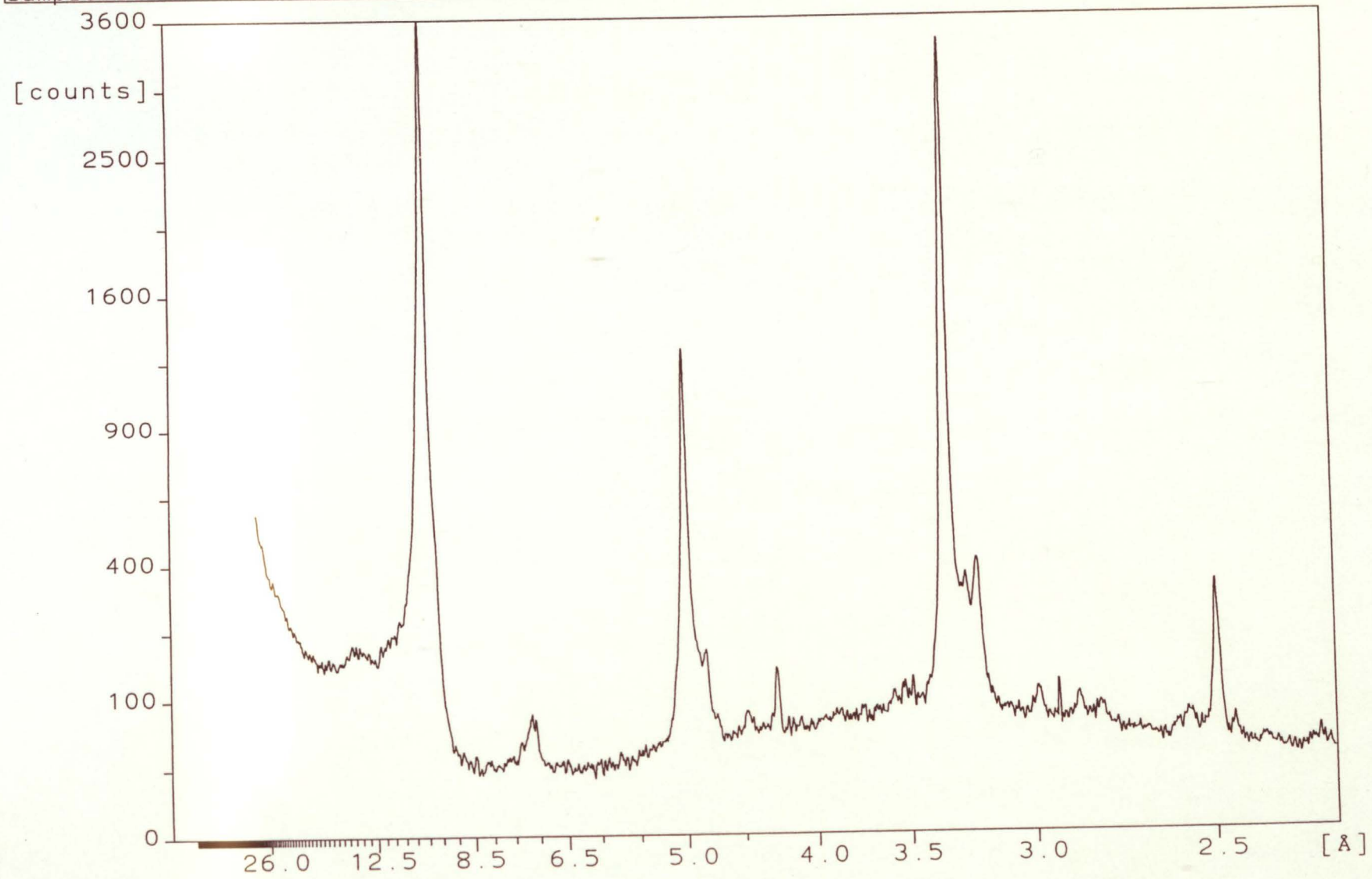
AR153.SM


Sample identification: ss54 air dried
5-Jun-2004 17:02
3600
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR154.SM


Sample identification: ss55 air dried
5-Jun-2004 17:02
3600
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR155.SM

Sample identification: ss56 air dried

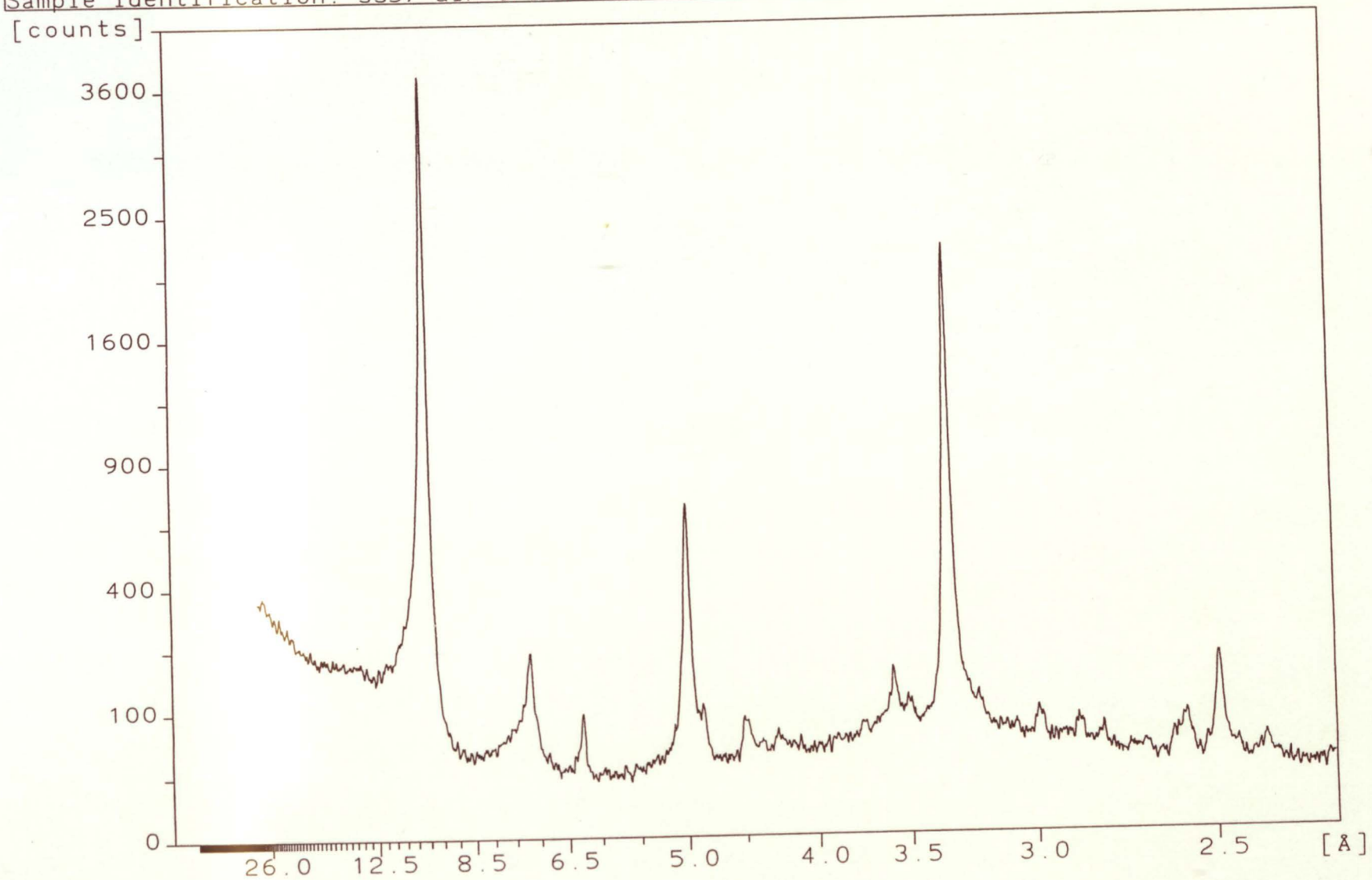
5-Jun-2004 17:03



AR156.SM

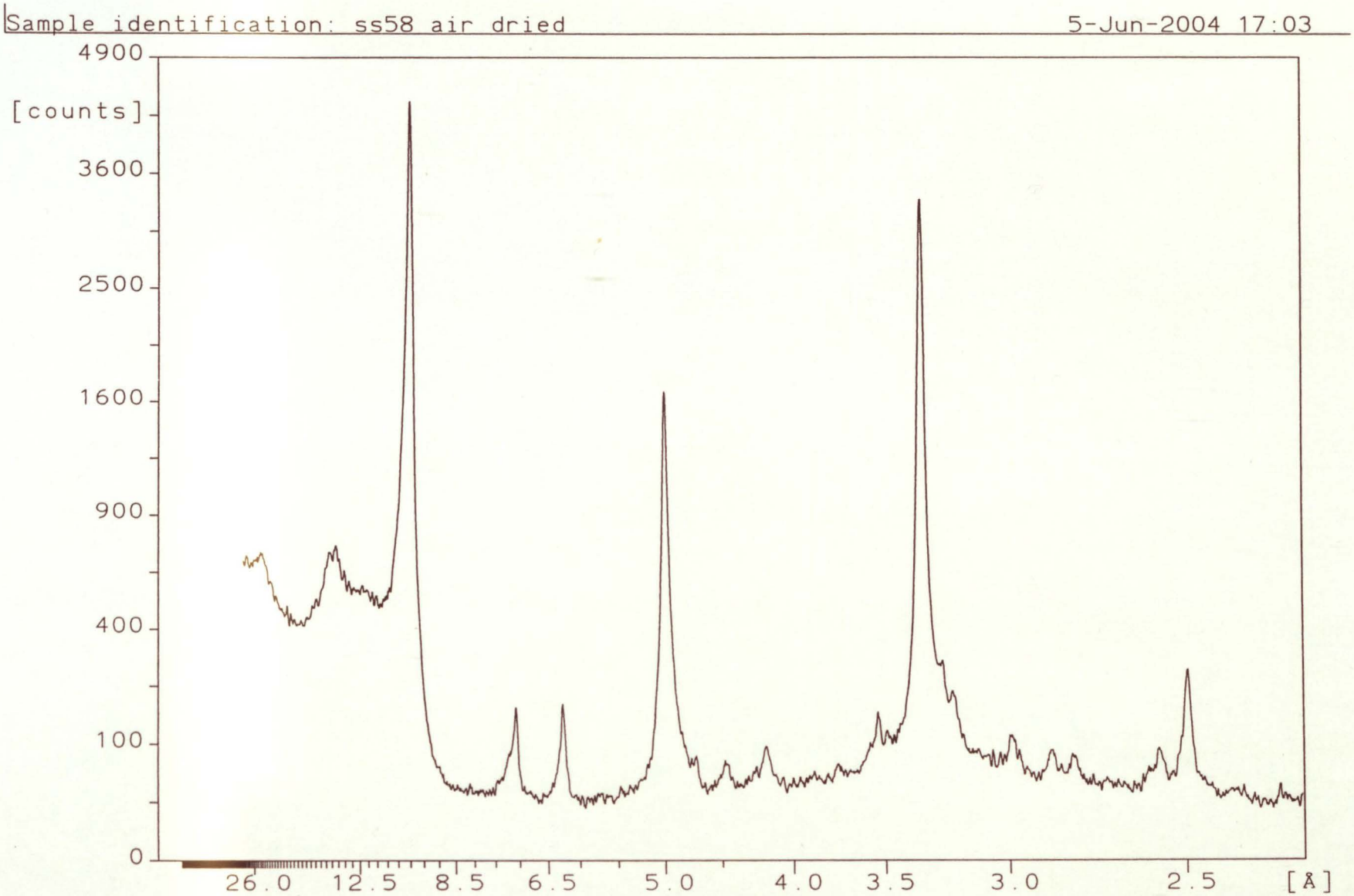
Sample identification: ss57 air dried

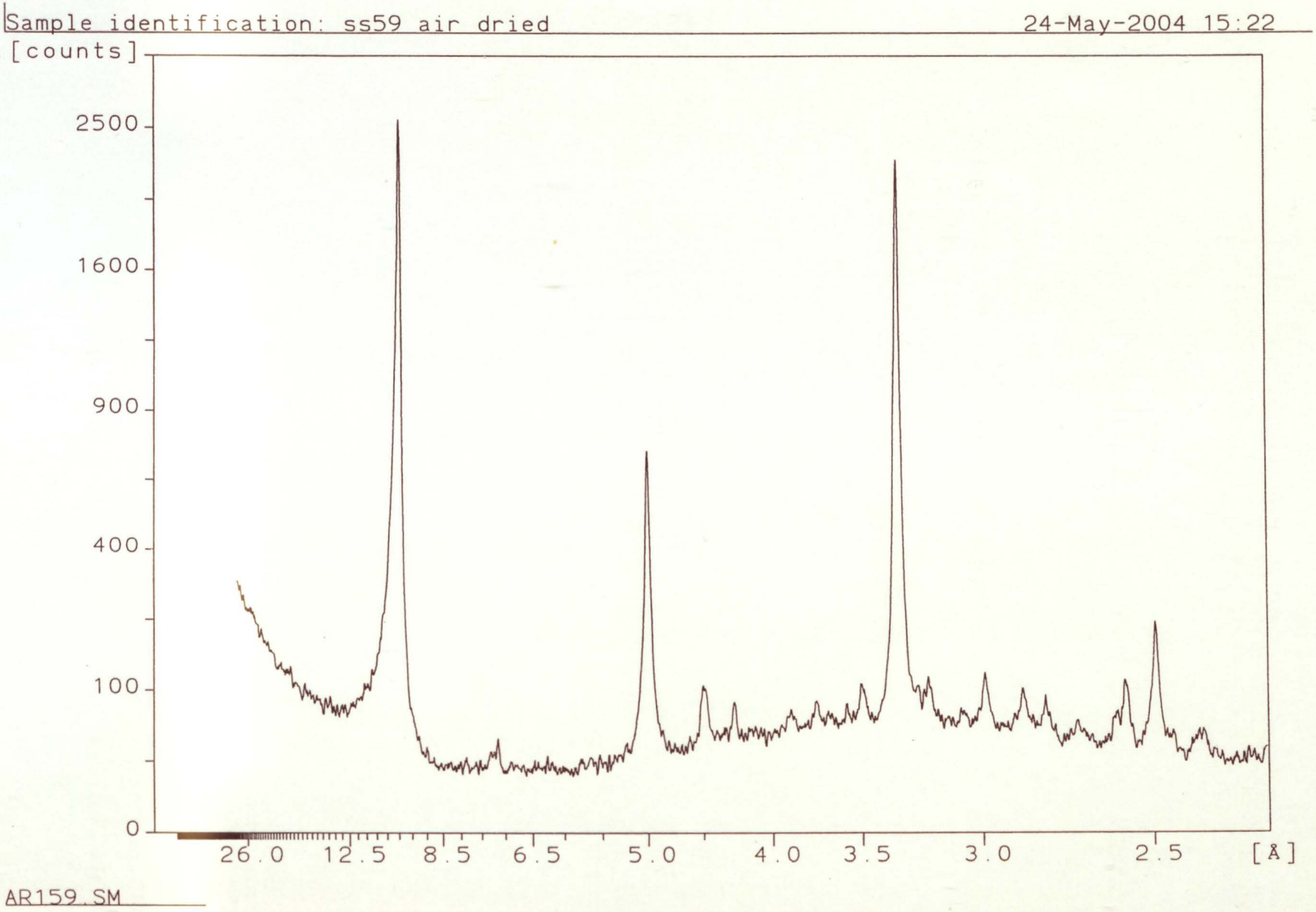
5-Jun-2004 17:03



A70

AR157.SM

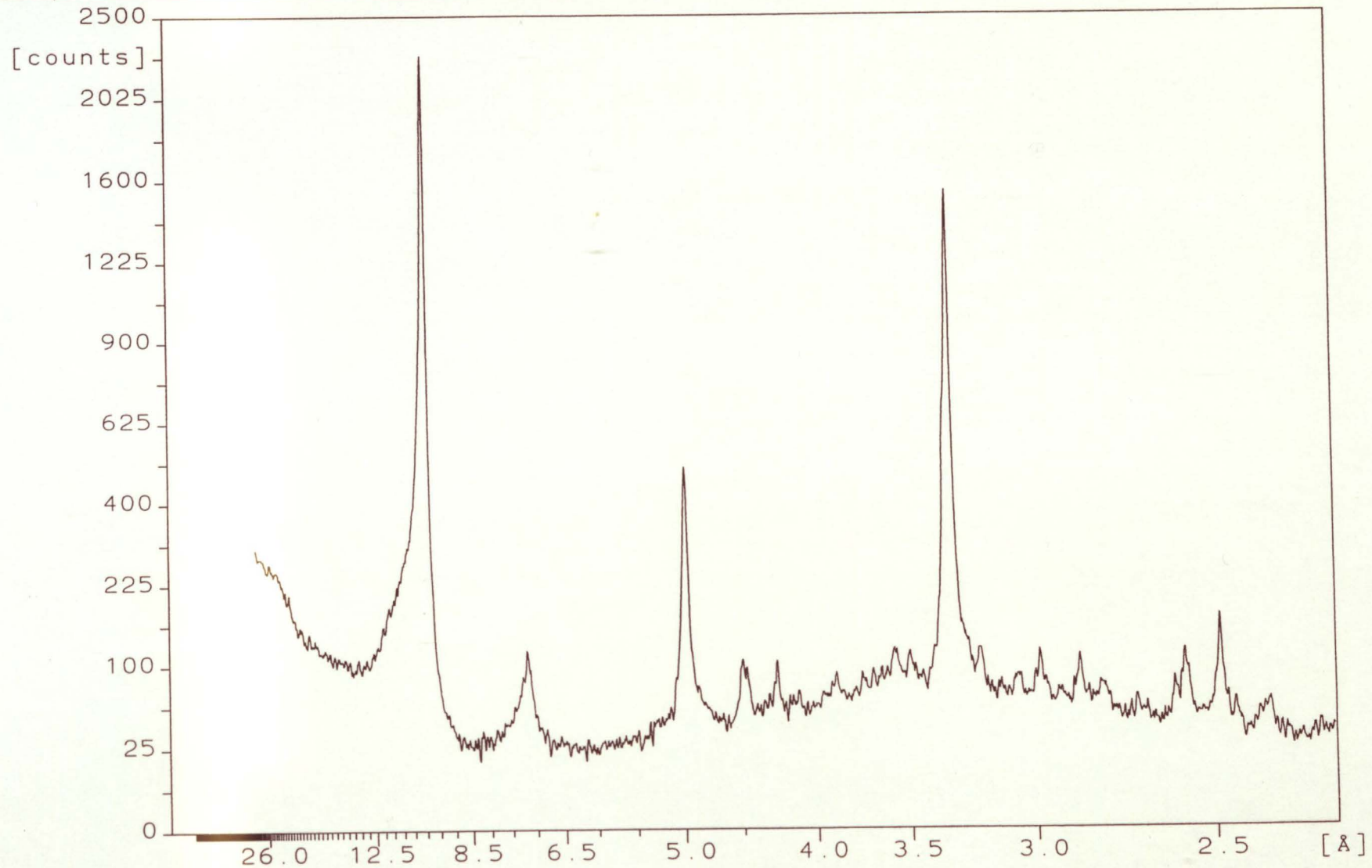

Sample identification: ss58 air dried
5-Jun-2004 17:03
4900
[counts]
3600
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR158.SM


Sample identification: ss59 air dried
24-May-2004 15:22
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR159.SM

A72

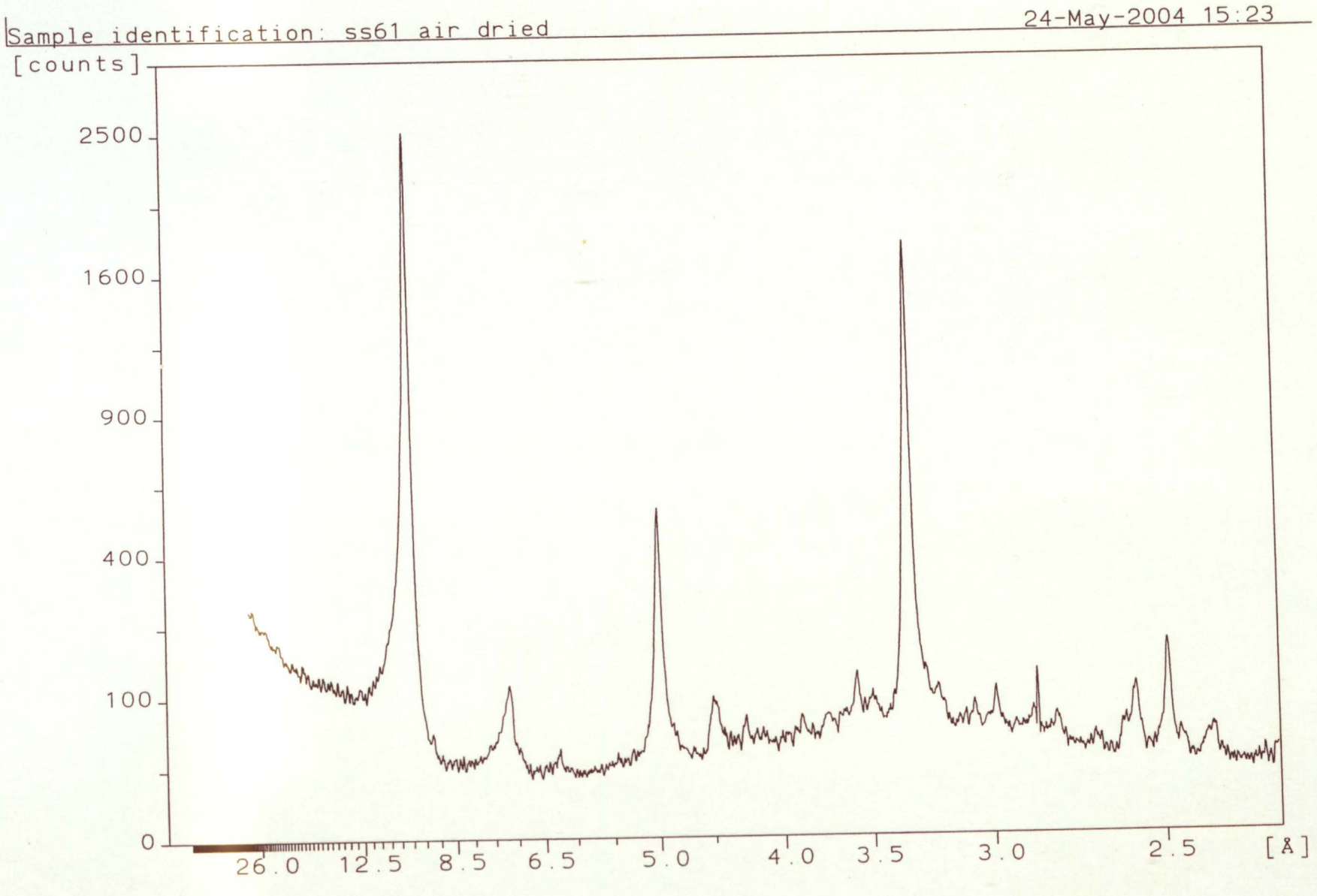
Sample identification: ss60 air dried

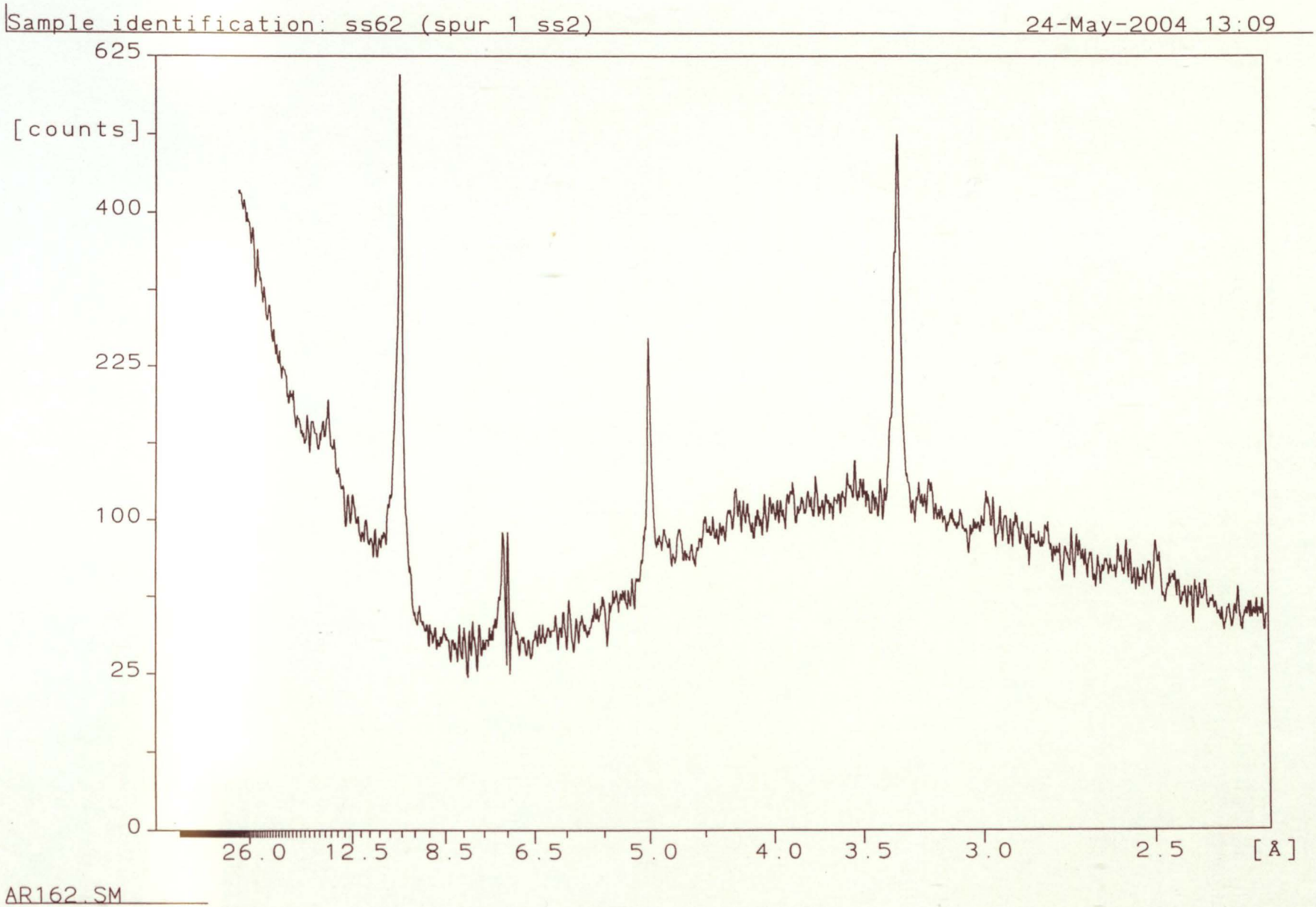
24-May-2004 15:22

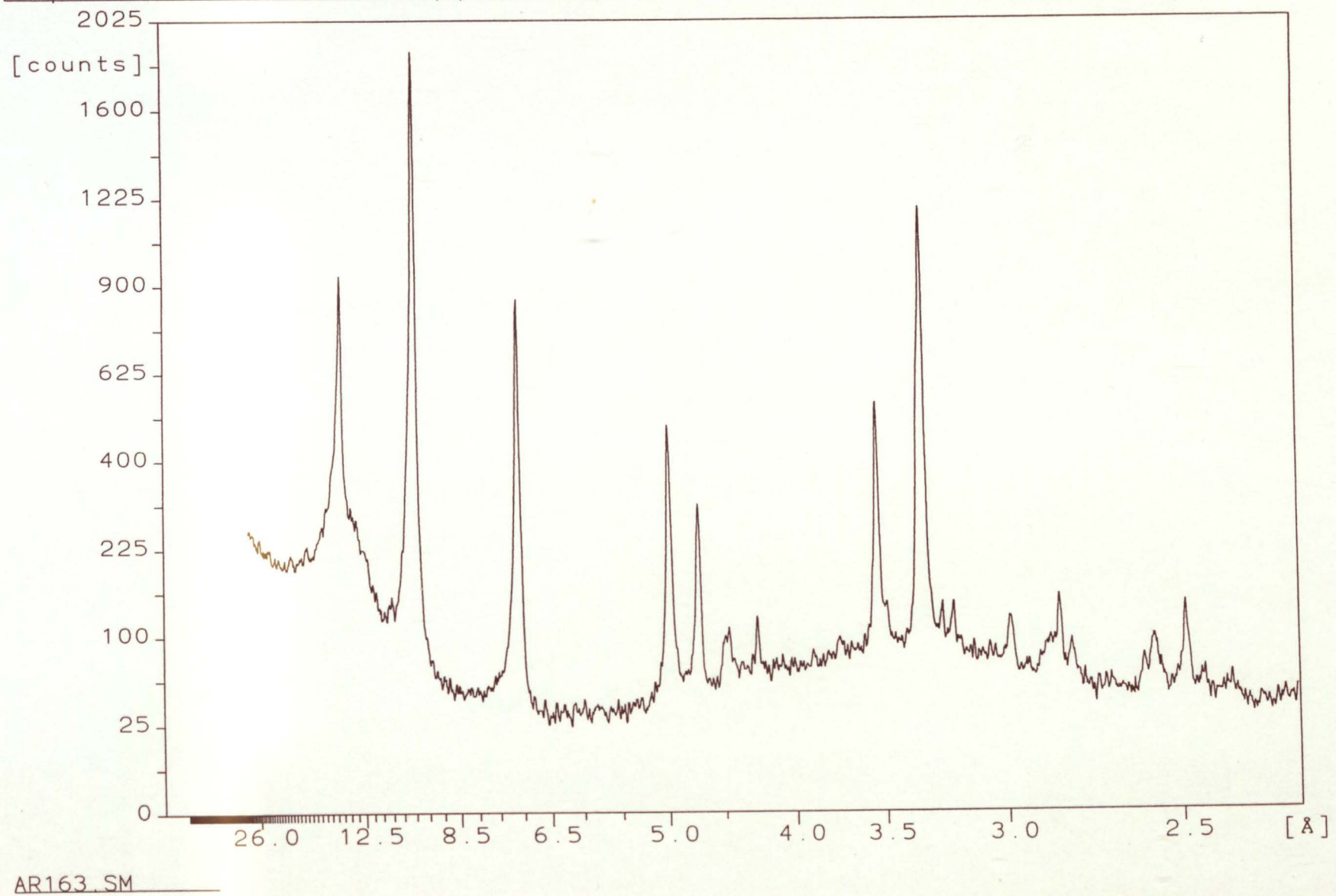


AR160.SM

A73

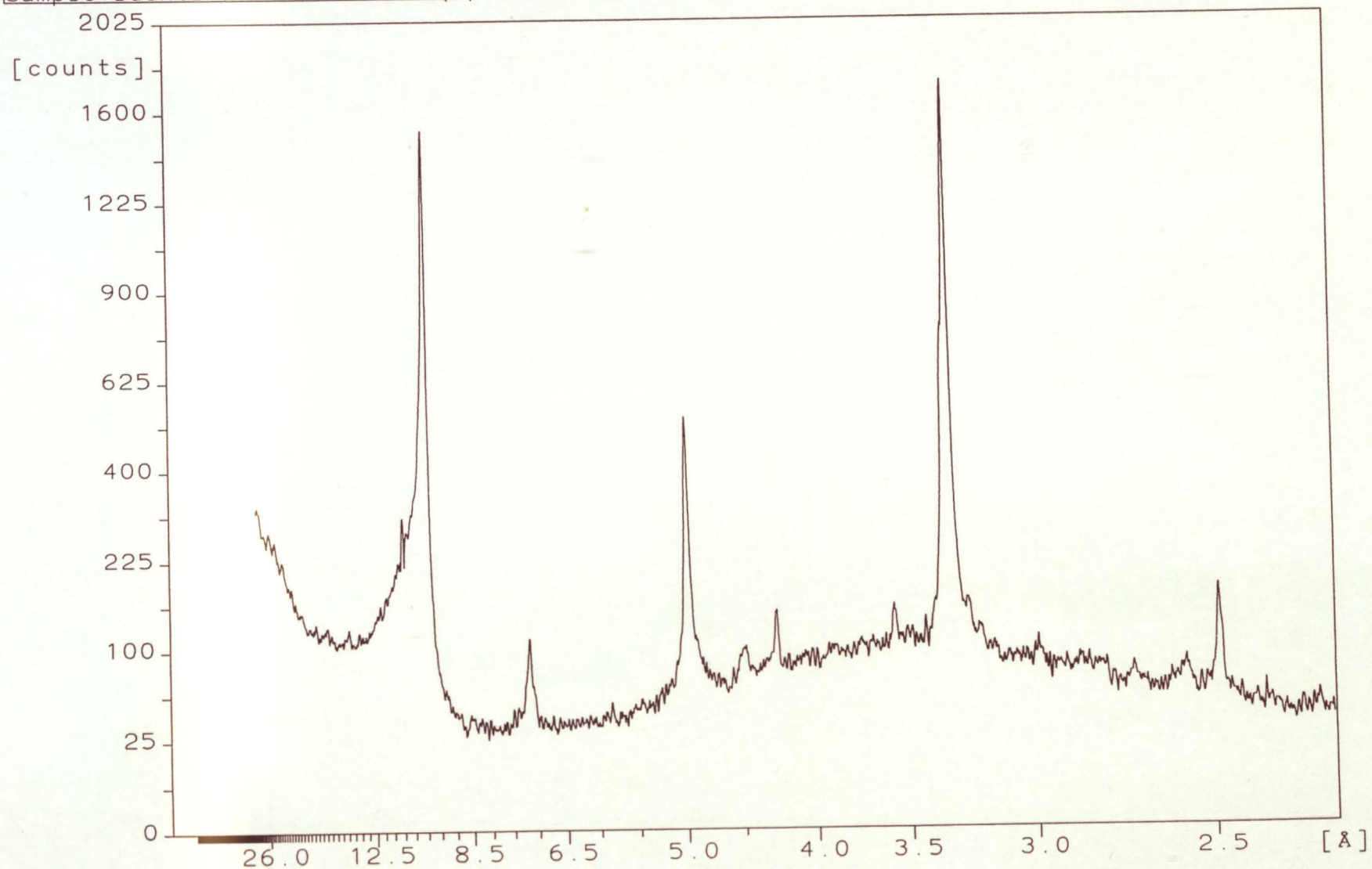

Sample identification: ss61 air dried
24-May-2004 15:23
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR161.SM


Sample identification: ss62 (spur 1 ss2)
24-May-2004 13:09
625
[counts]
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR162.SM


Sample identification: ss63 (spur 1 ss4)
24-May-2004 12:54
2025
[counts]
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR163.SM

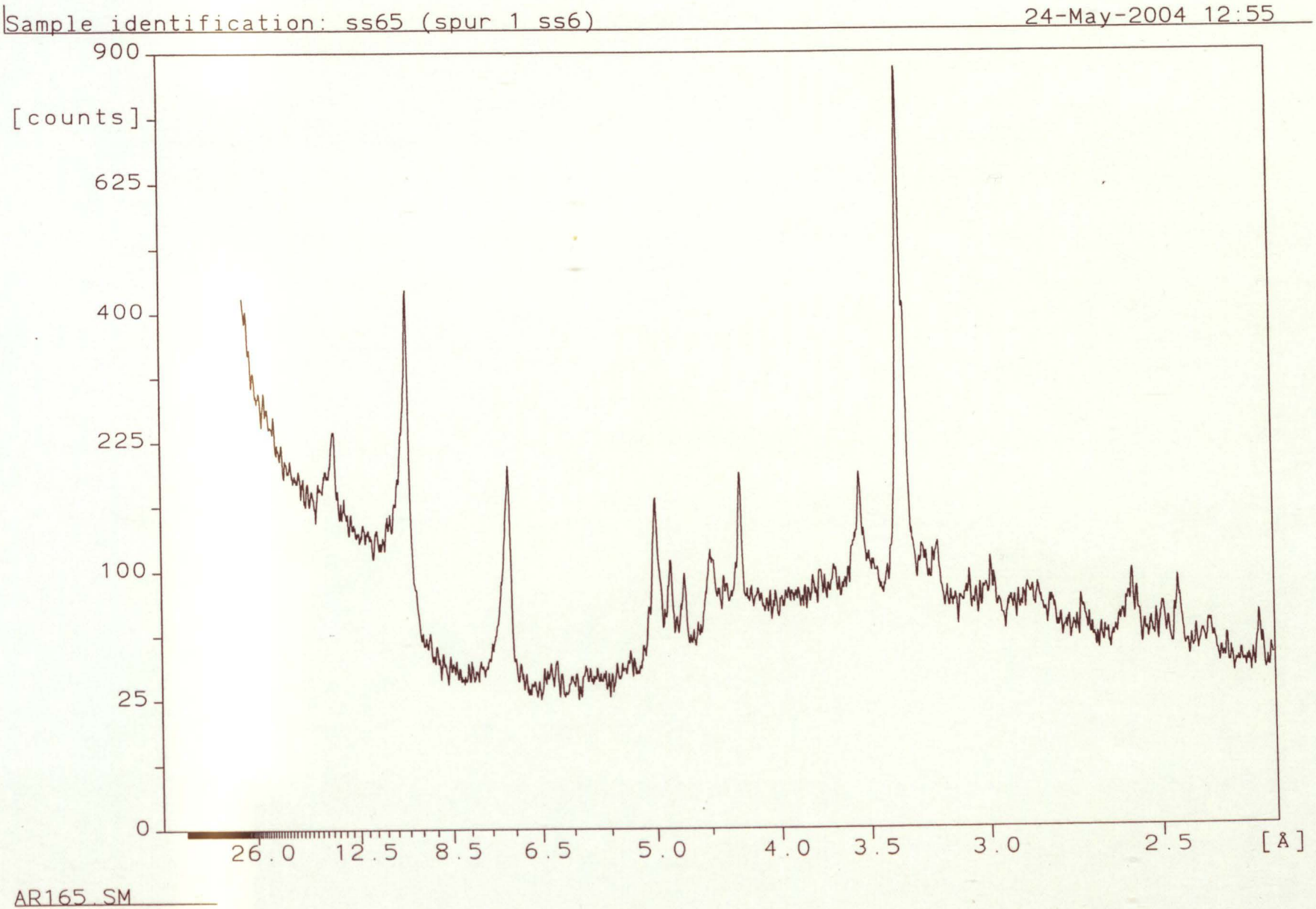
Sample identification: ss64 (spur 1 ss5)

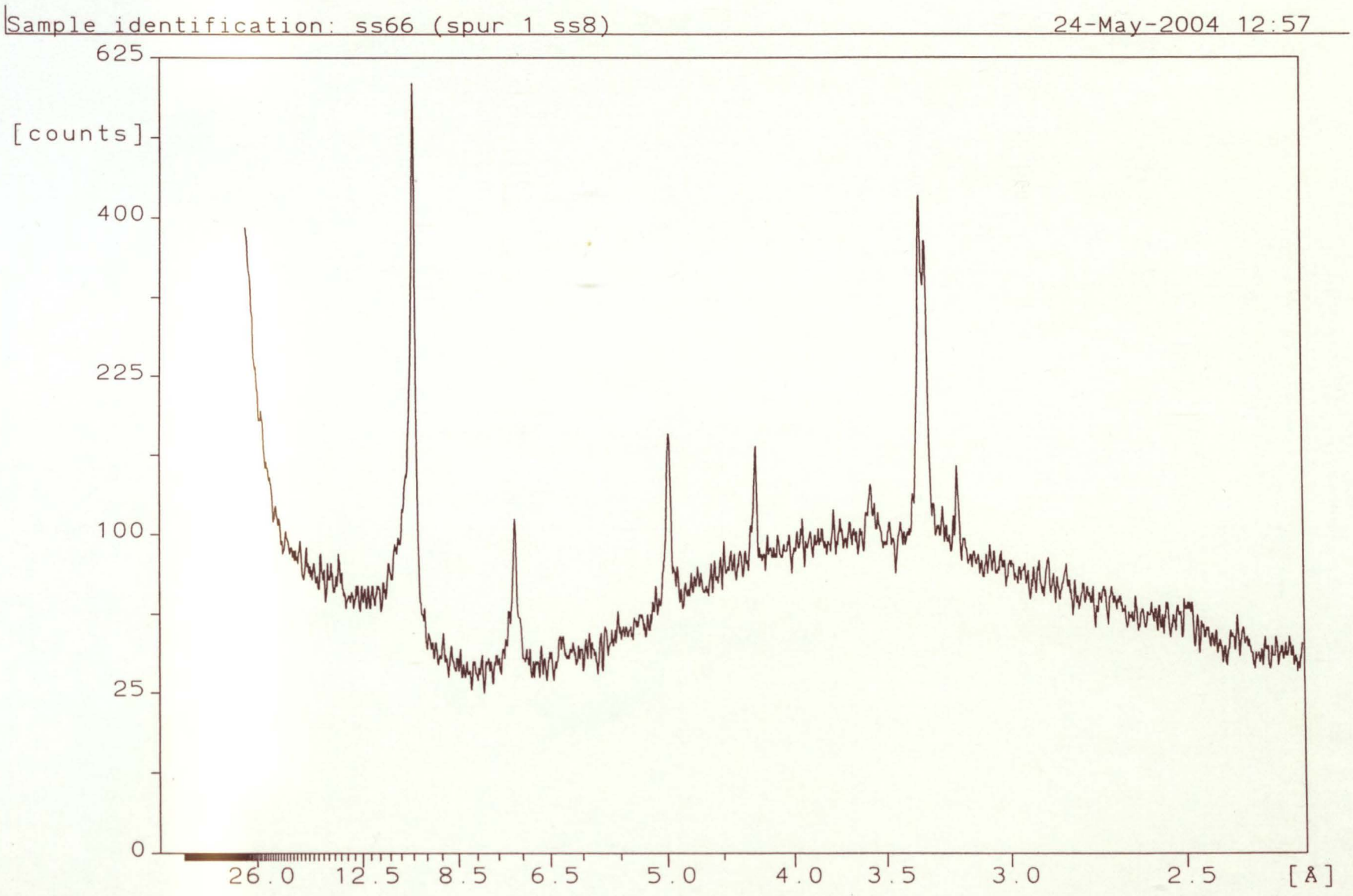
24-May-2004 12:55

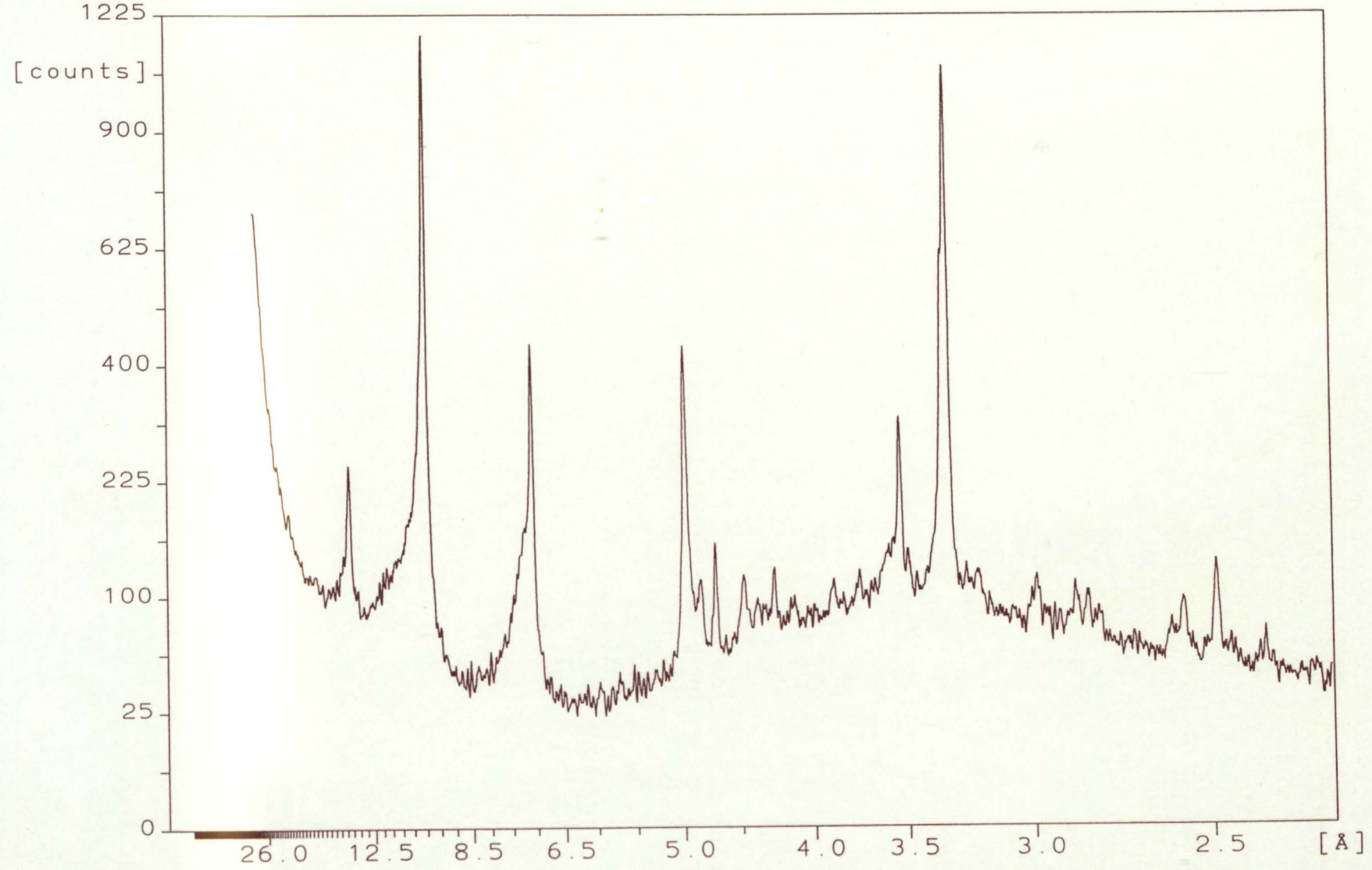


AR164.SM

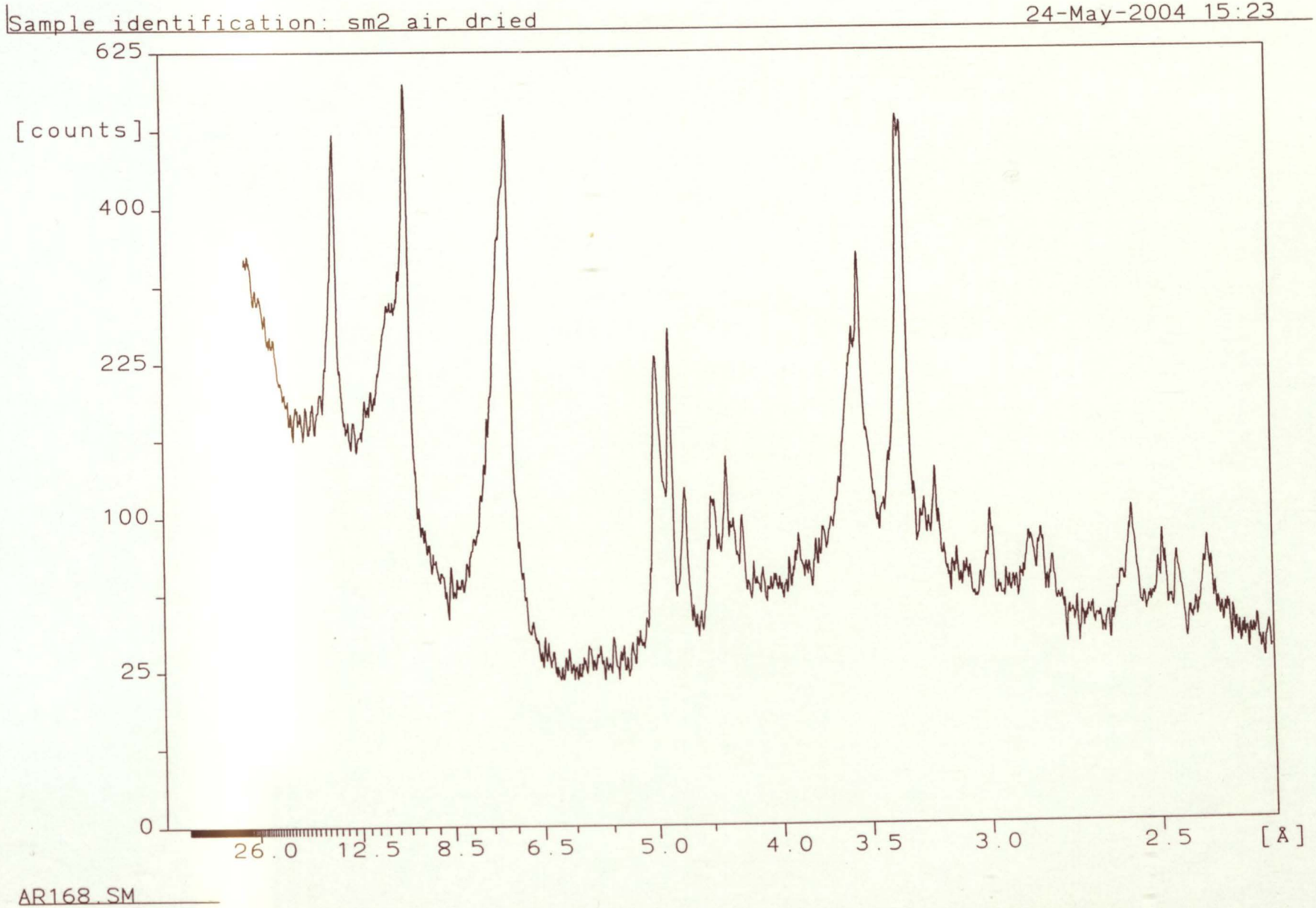
A77

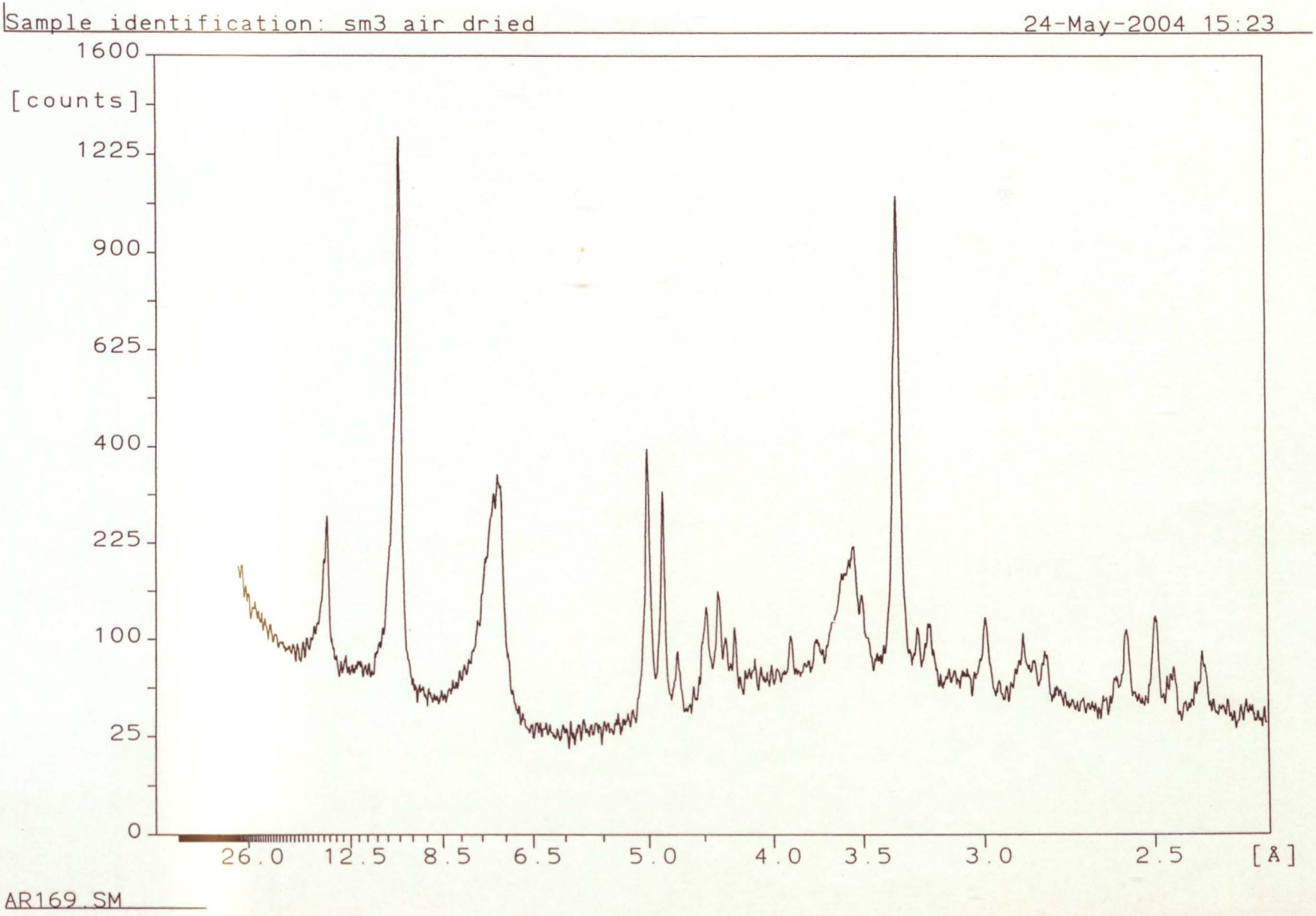

Sample identification: ss65 (spur 1 ss6)
24-May-2004 12:55
900
[counts]
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR165.SM


Sample identification: ss66 (spur 1 ss8)
24-May-2004 12:57
625
[counts]
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR166.SM

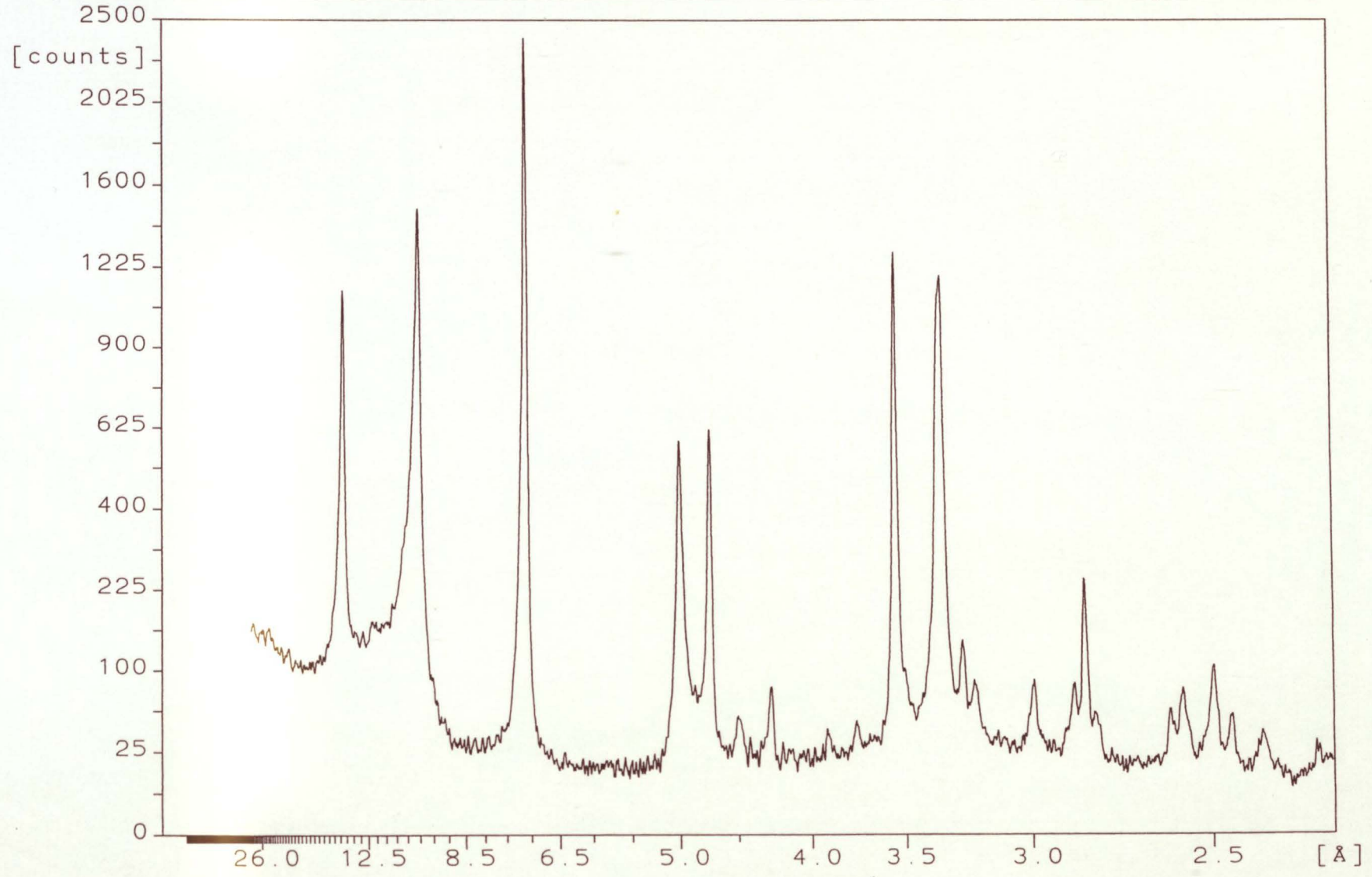

Sample identification: sm1 air dried
24-May-2004 15:23
1225
[counts]
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR167.SM

A80


Sample identification: sm2 air dried
24-May-2004 15:23
625
[counts]
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR168.SM


Sample identification: sm3 air dried
24-May-2004 15:23
1600
[counts]
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR169.SM

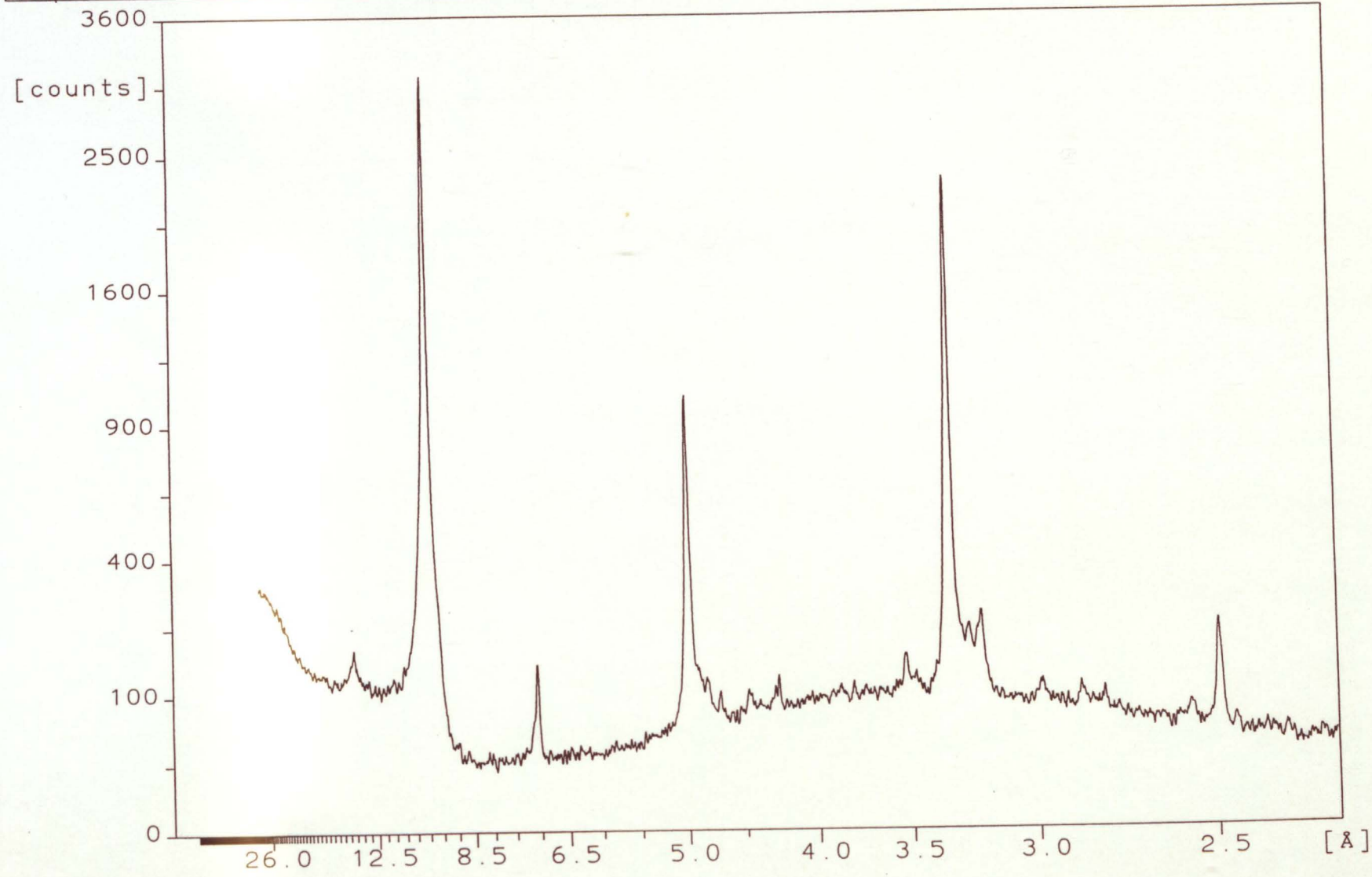
A82


Sample identification: st1 air dried
24-May-2004 15:23
2500
[counts]
2025
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR170.SM

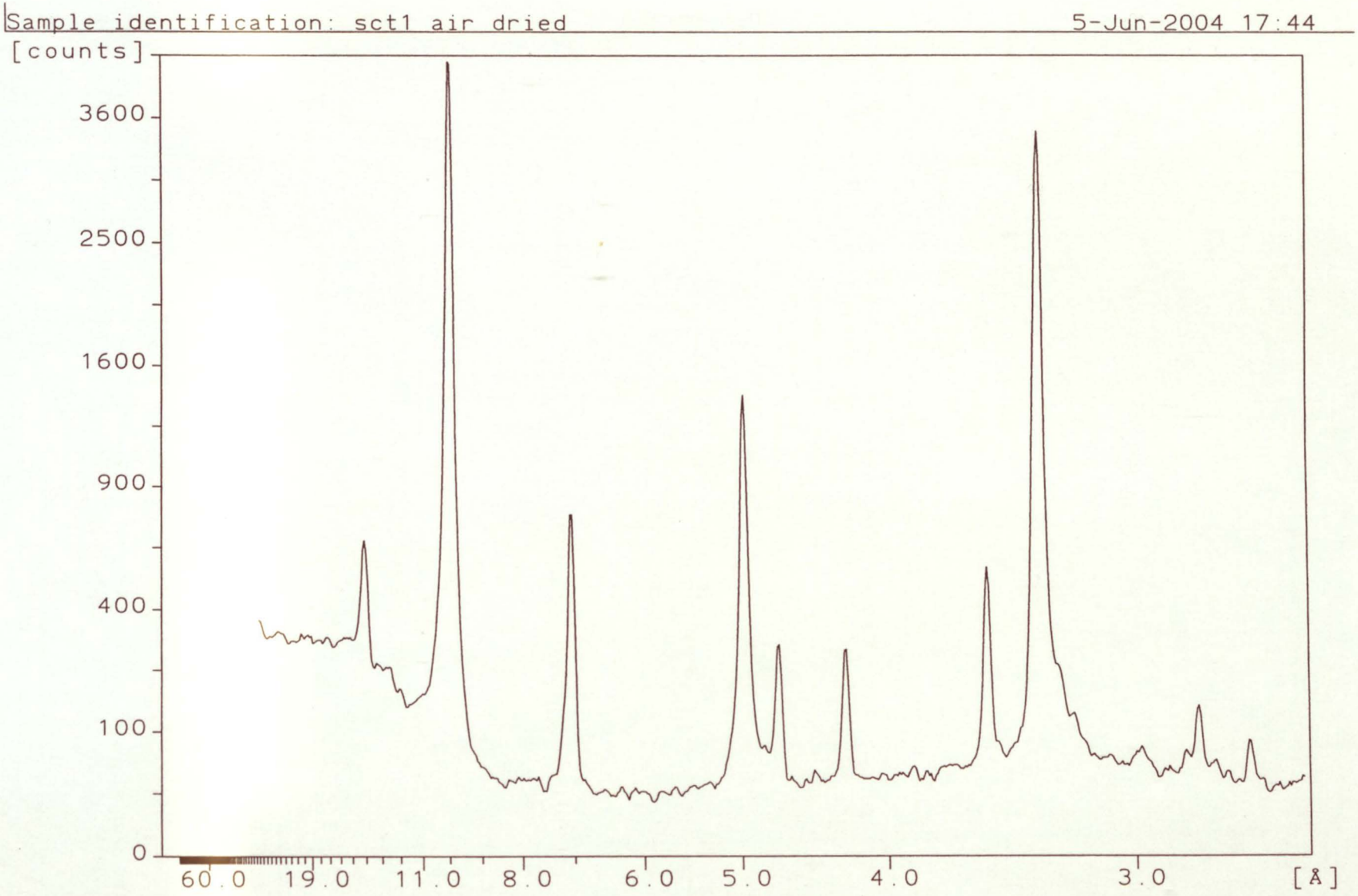
A83

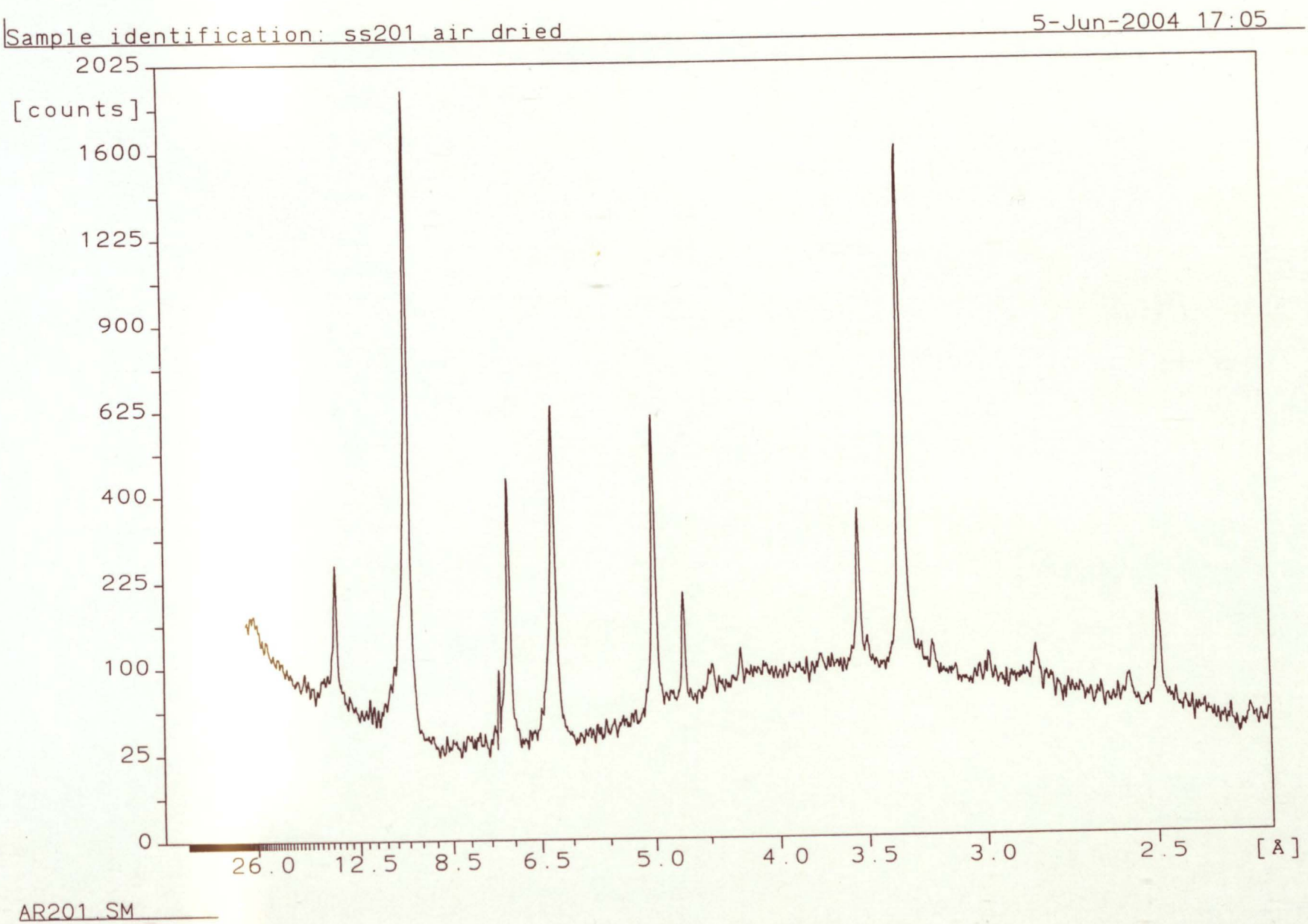
Sample identification: st2 air dried

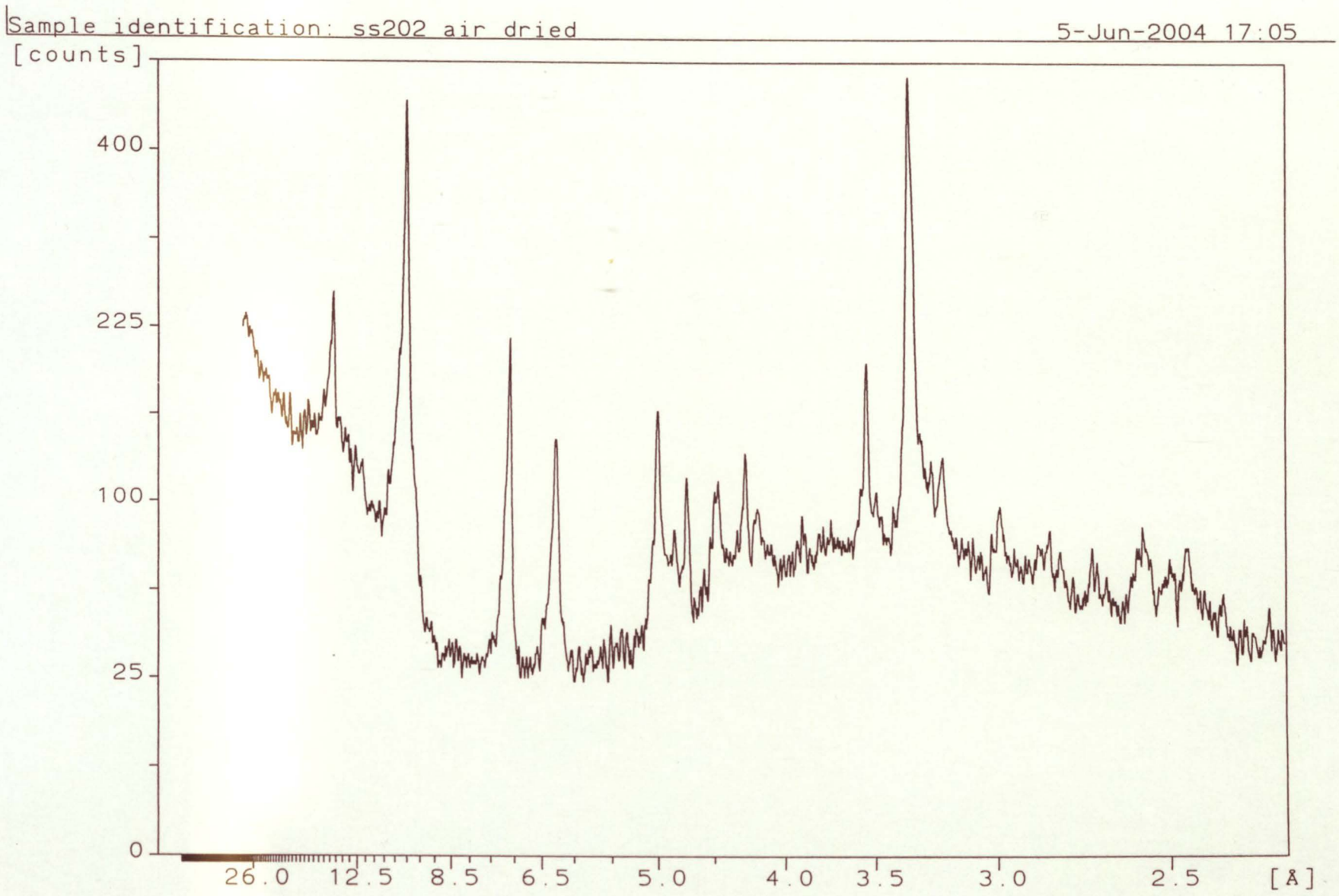
5-Jun-2004 17:04



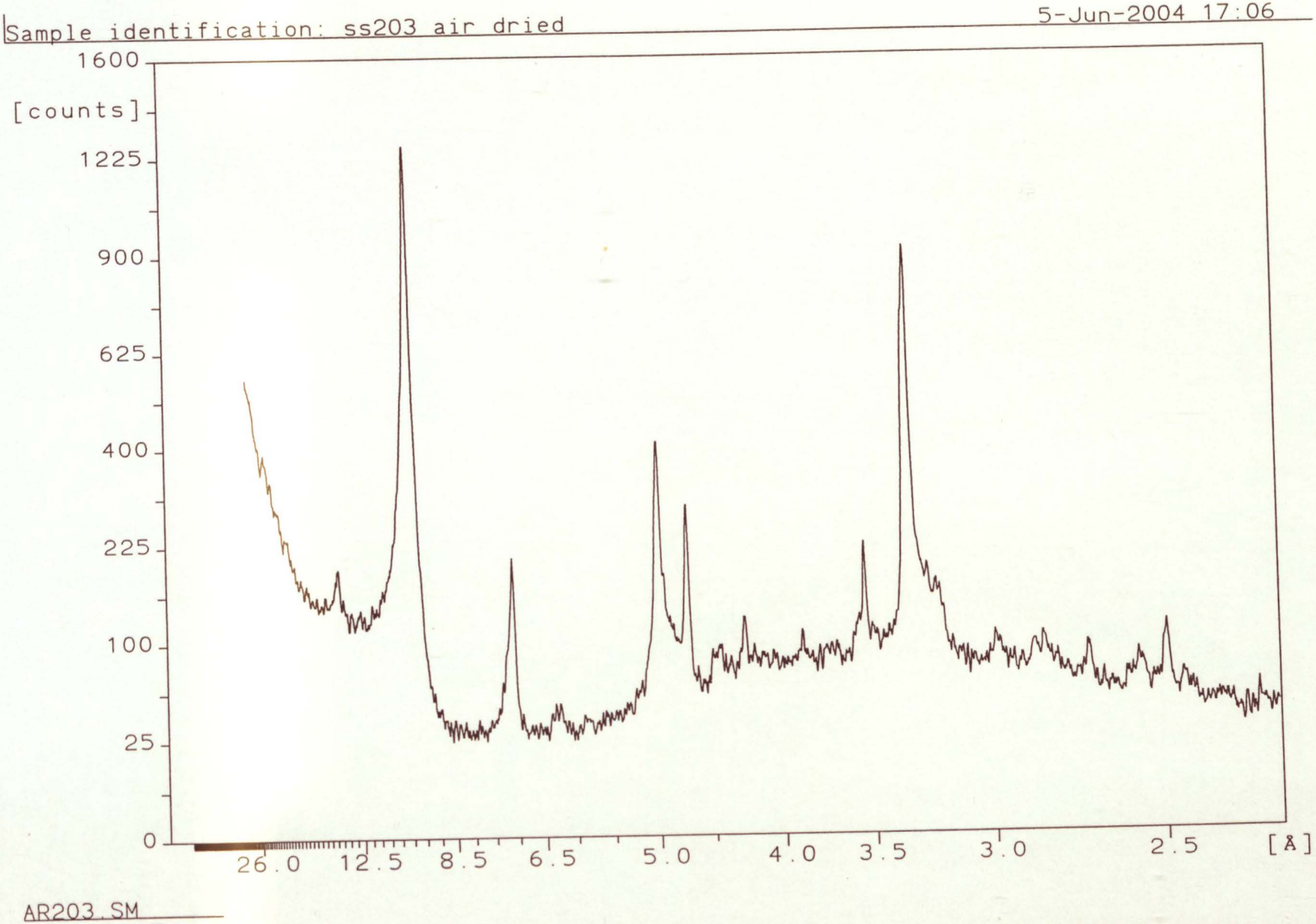
AR171.SM

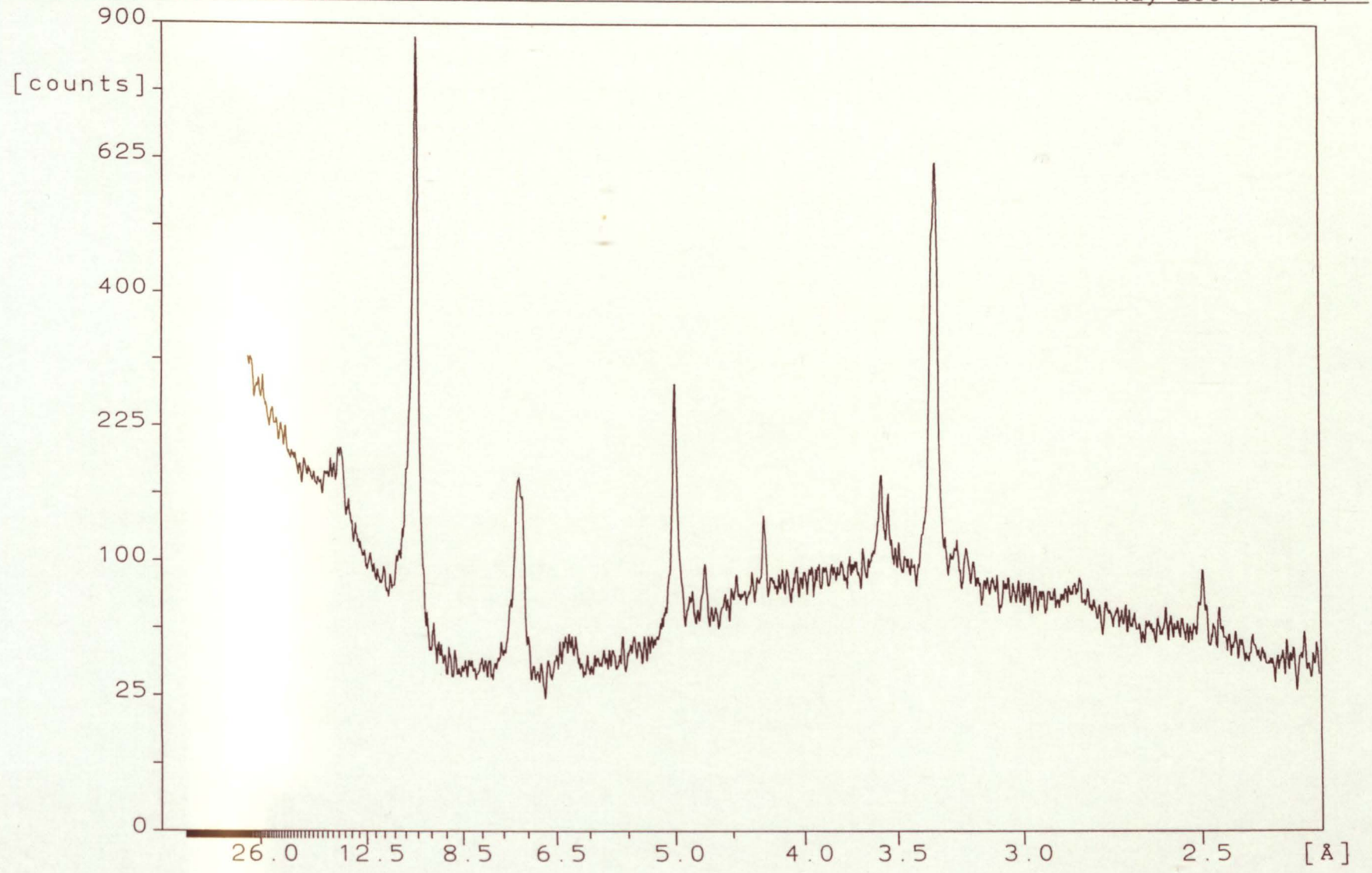

Sample identification: sct1 air dried
5-Jun-2004 17:44
[counts]
3600
2500
1600
900
400
100
0
60.0
19.0
11.0
8.0
6.0
5.0
4.0
3.0
[Å]
SCT1.SM

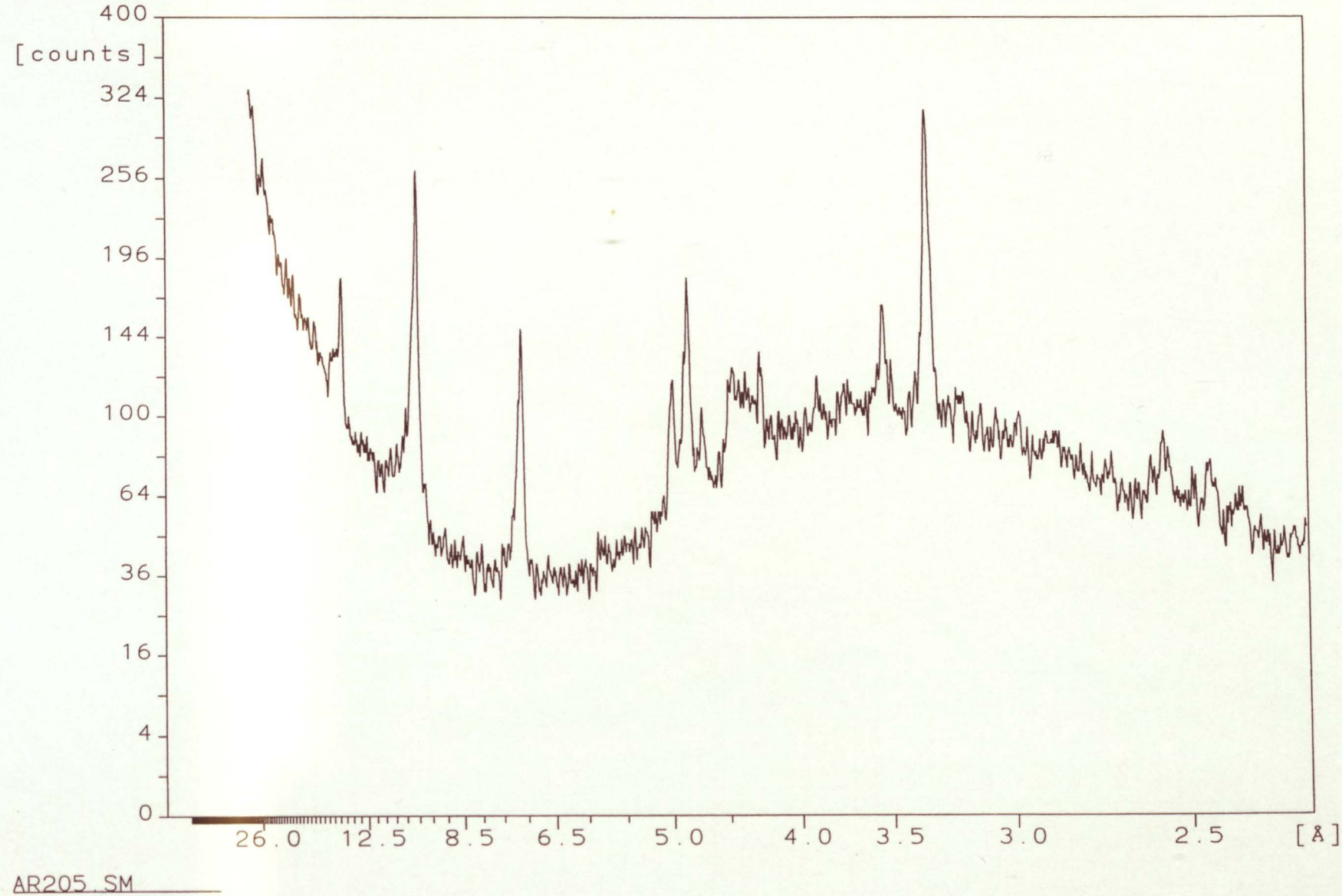

Sample identification: ss201 air dried
5-Jun-2004 17:05
2025
[counts]
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR201.SM


Sample identification: ss202 air dried
5-Jun-2004 17:05
[counts]
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR202.SM

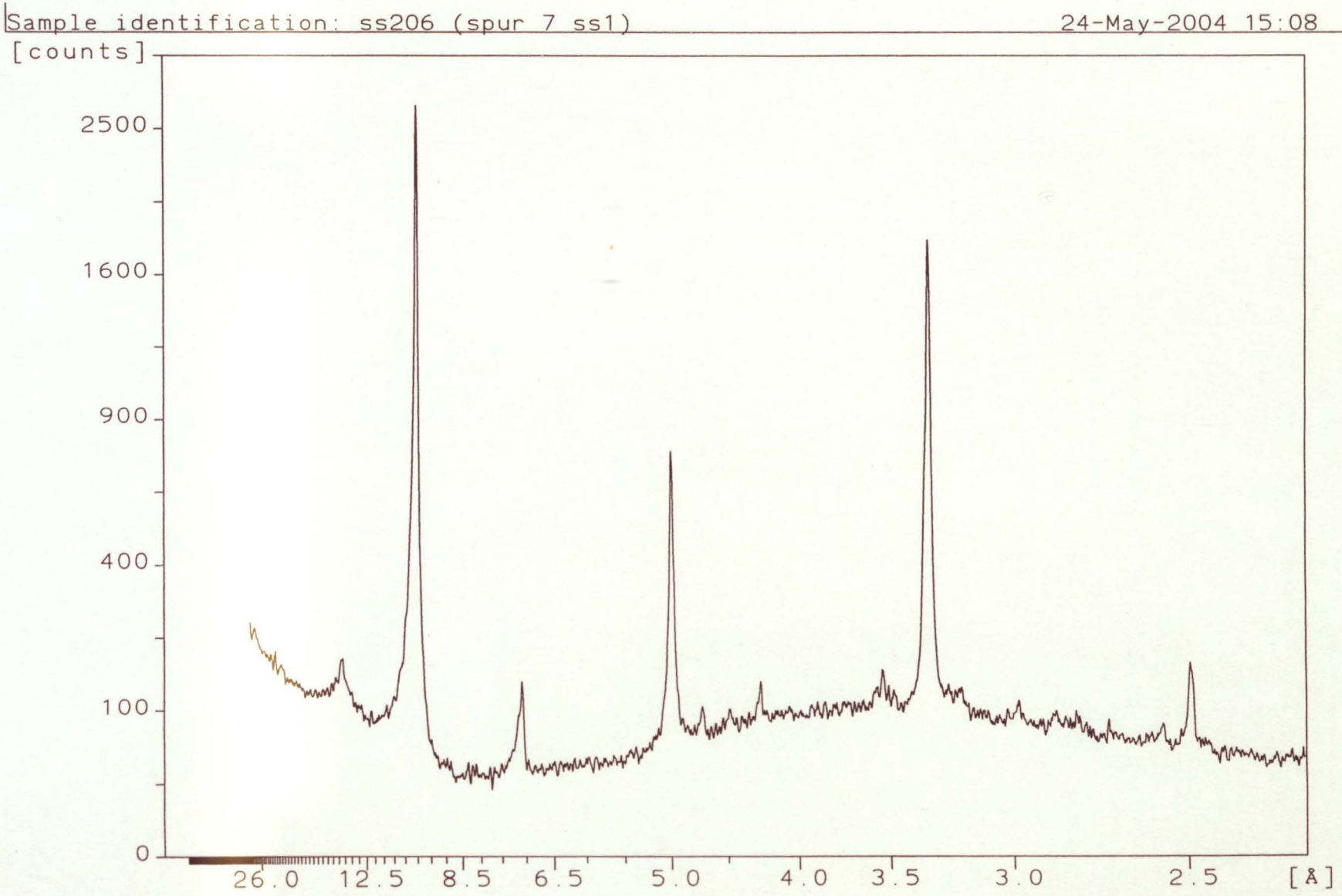
A87

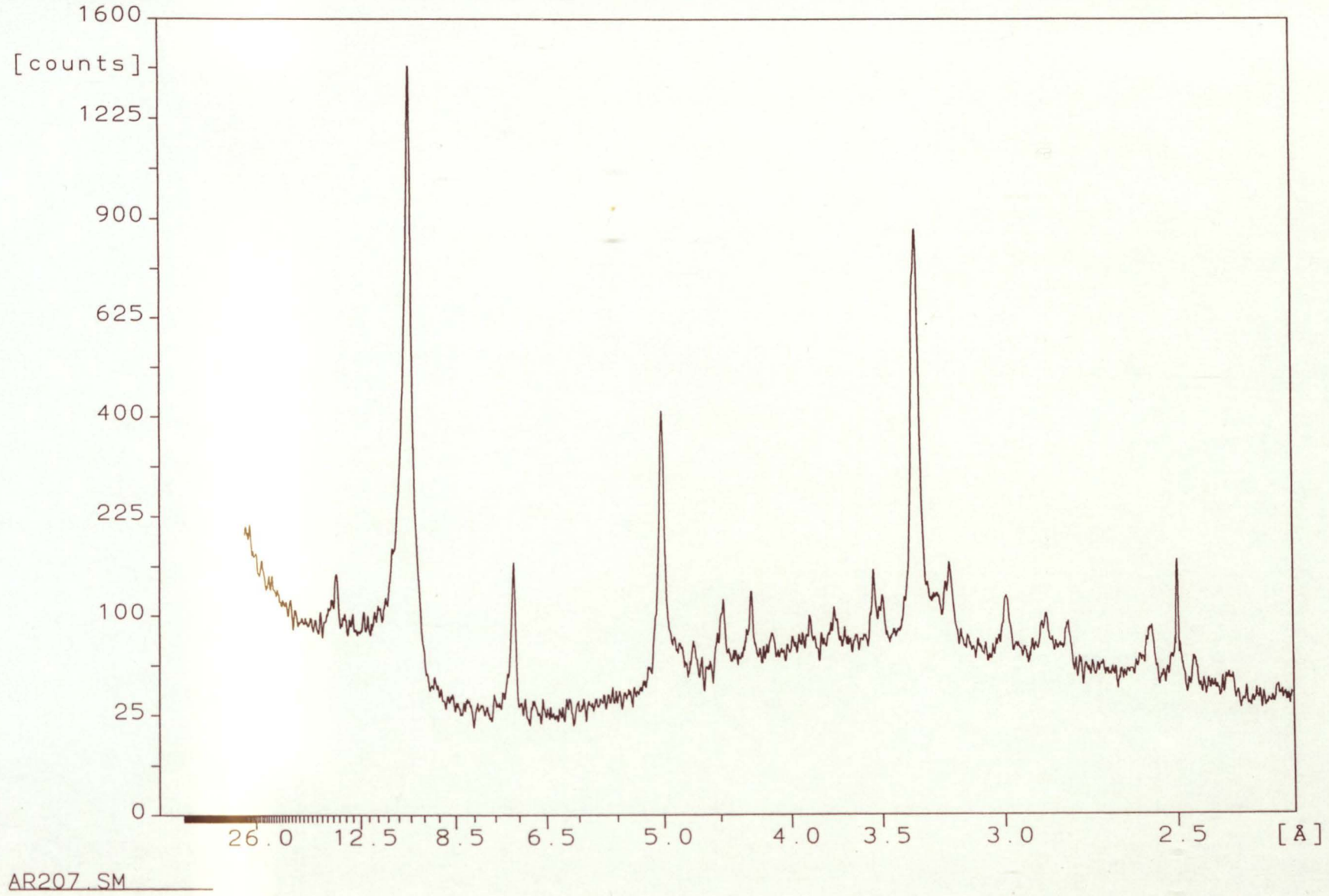

Sample identification: ss203 air dried
5-Jun-2004 17:06
1600
[counts]
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR203.SM


Sample identification: ss204 air dried
24-May-2004 15:34
900
[counts]
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR204.SM

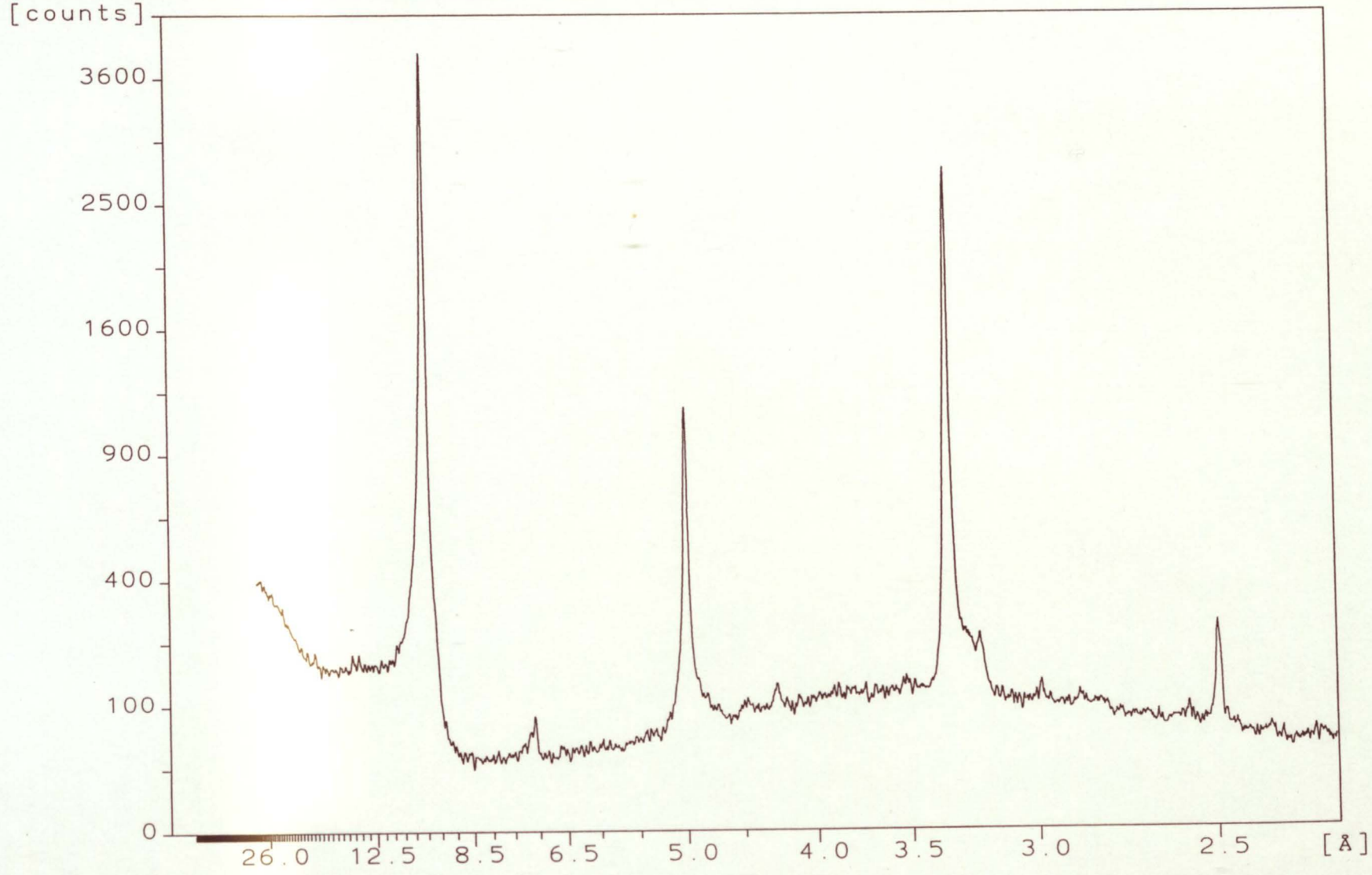

Sample identification: ss205 air dried
24-May-2004 15:34
400
[counts]
324
256
196
144
100
64
36
16
4
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR205.SM

A90


Sample identification: ss206 (spur 7 ss1)
24-May-2004 15:08
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR206.SM

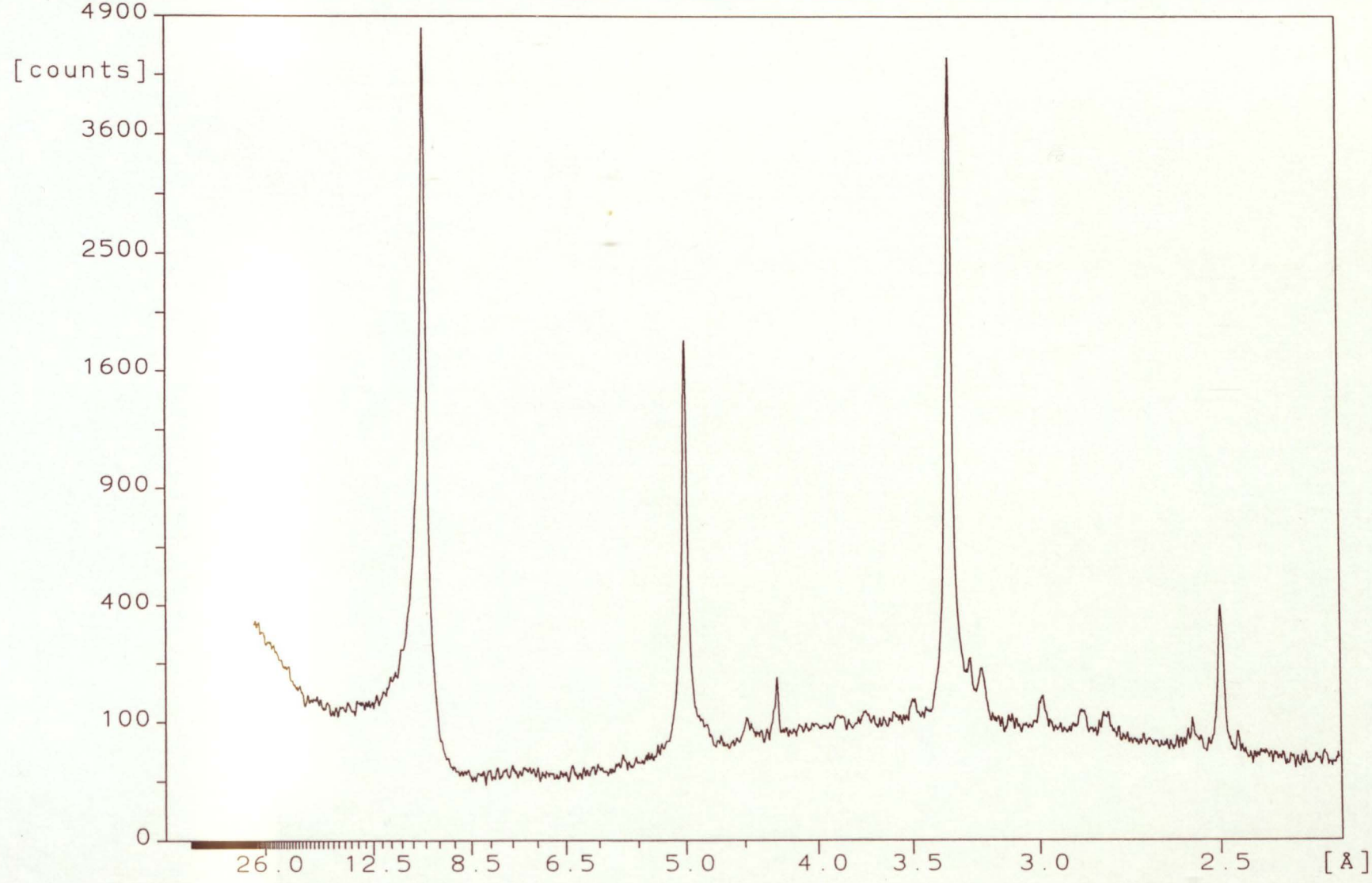

Sample identification: ss207 air dried
24-May-2004 15:35
1600
[counts]
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR207.SM

Sample identification: ss208 air dried 24-May-2004 15:35



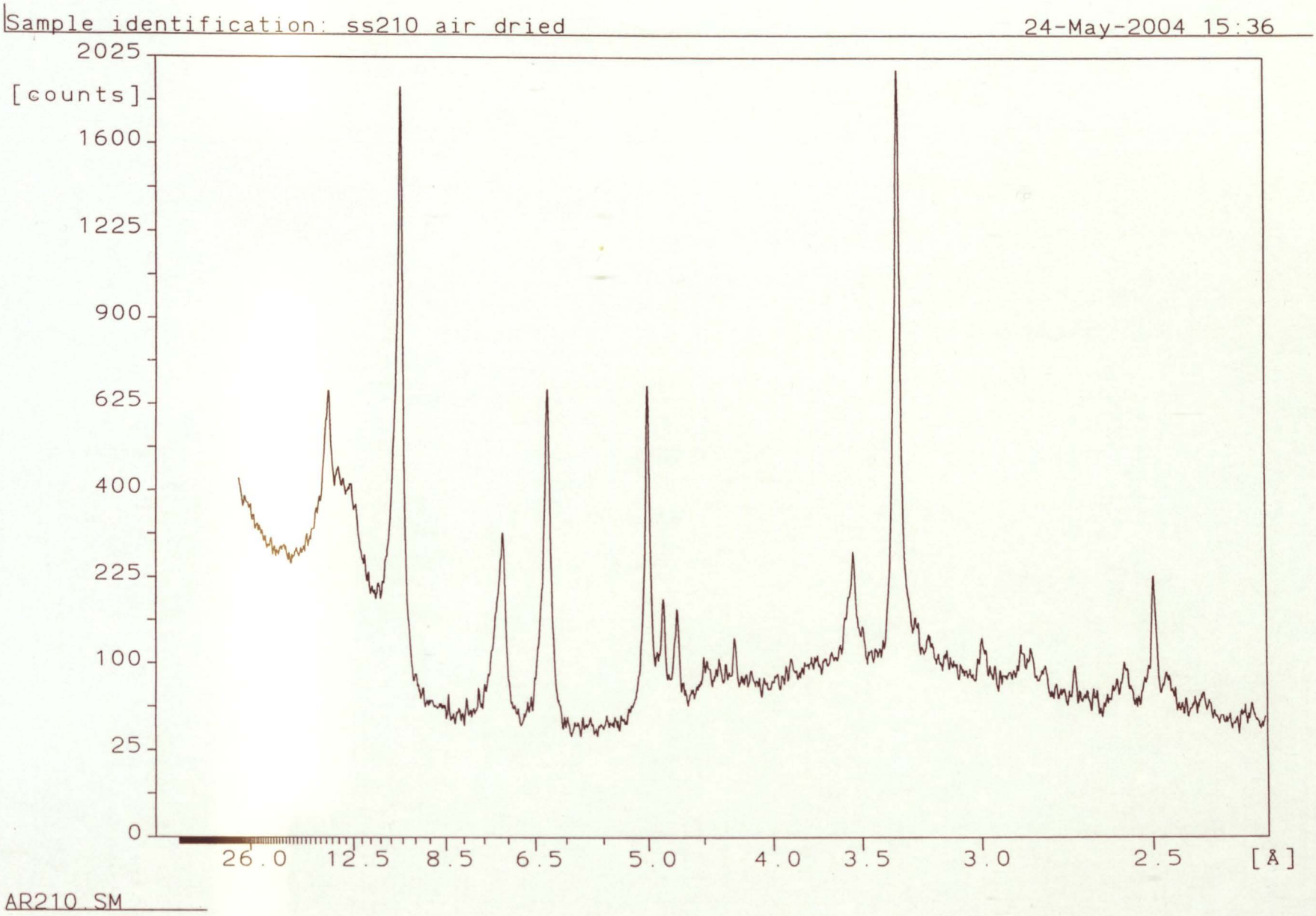
AR208.SM

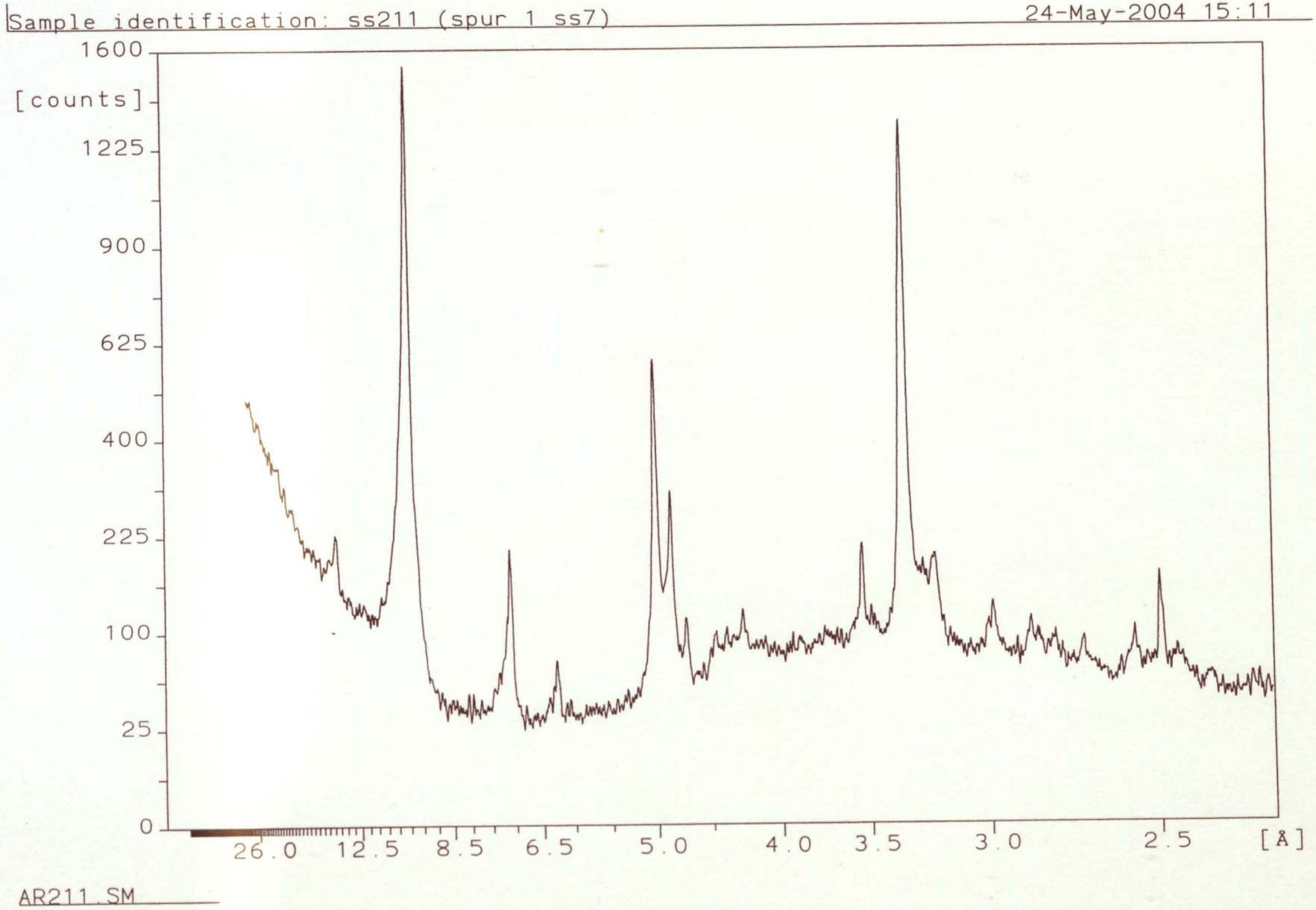
Sample identification: ss209 air dried 24-May-2004 15:36

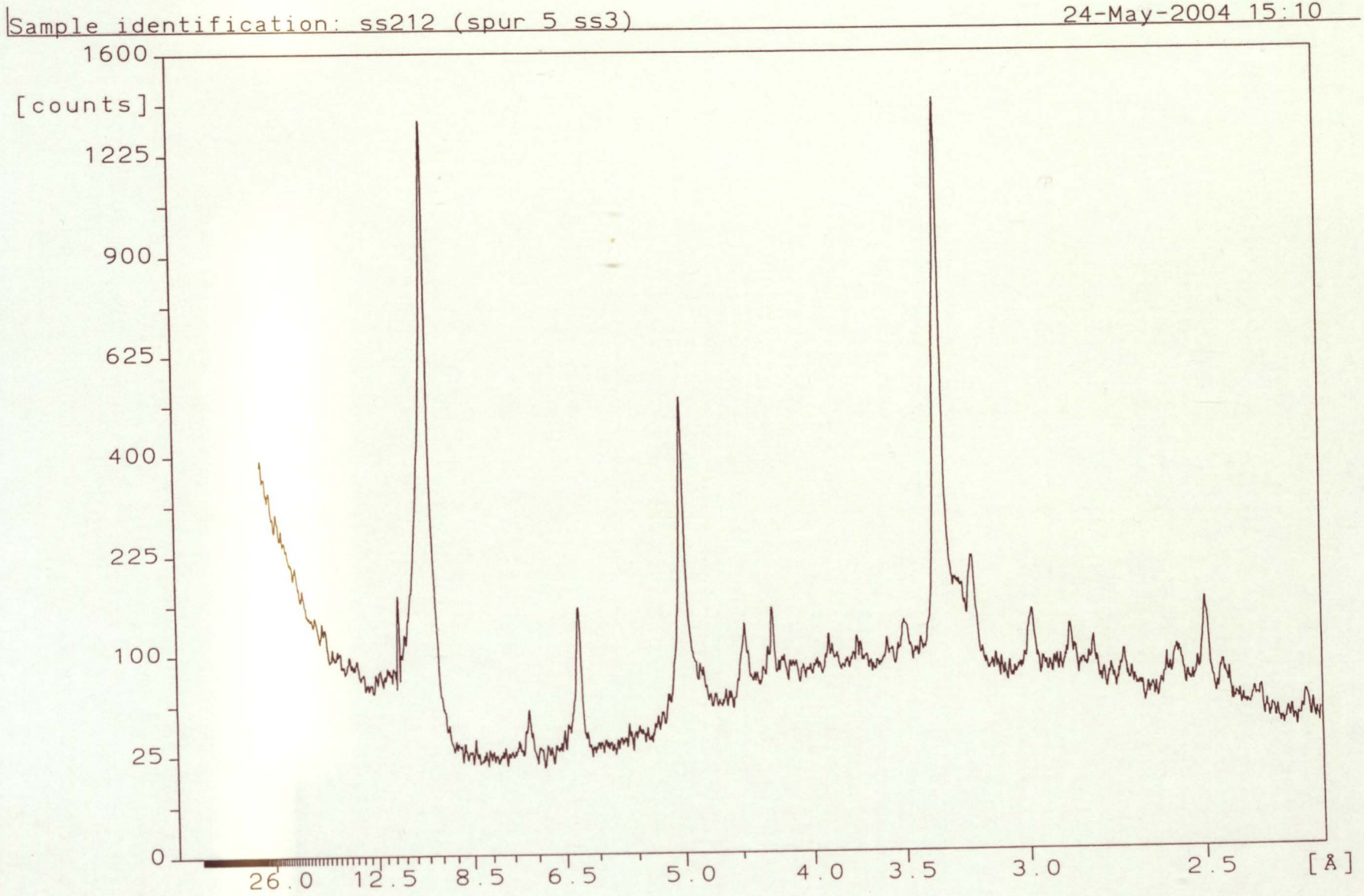


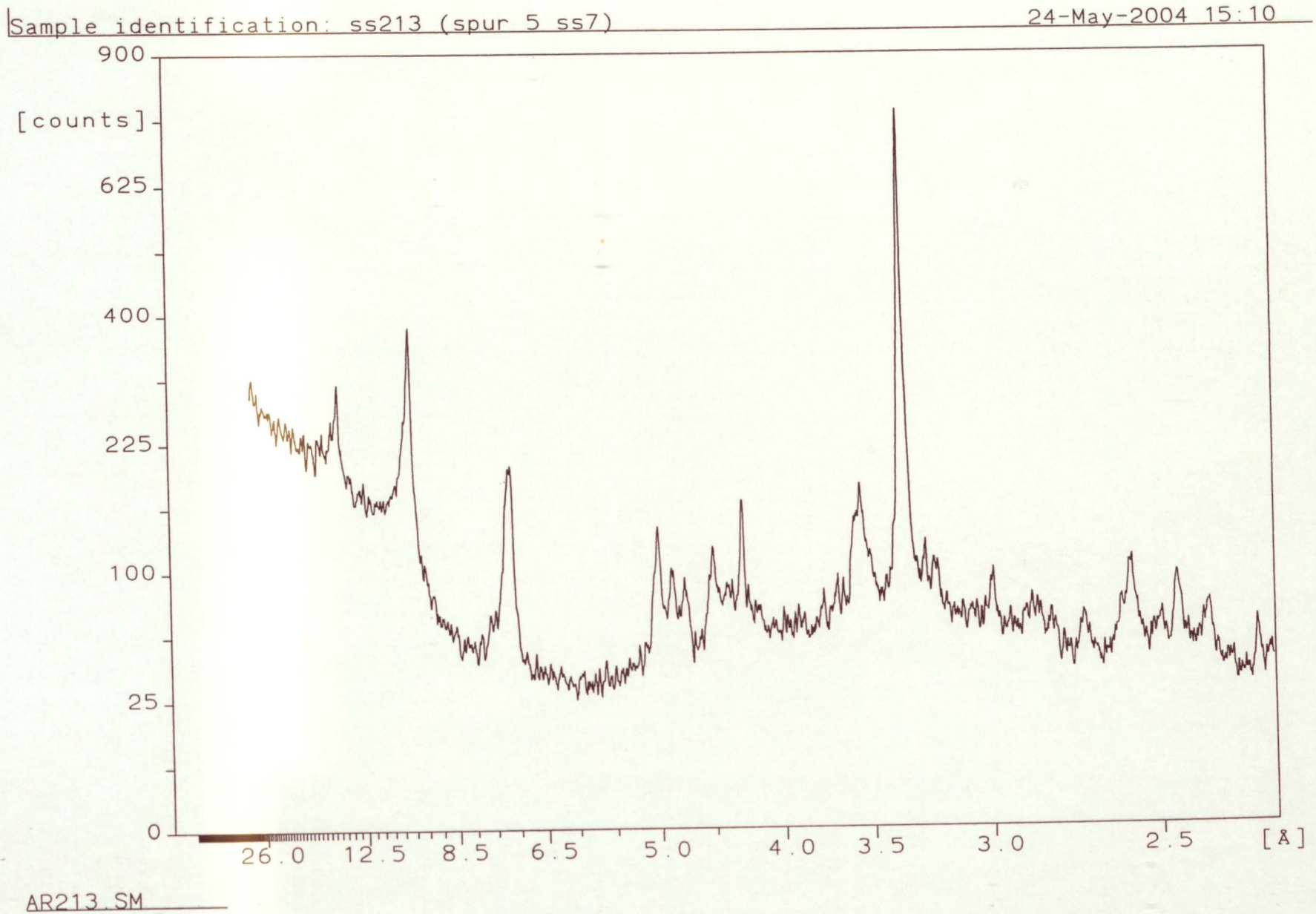
AR209.SM

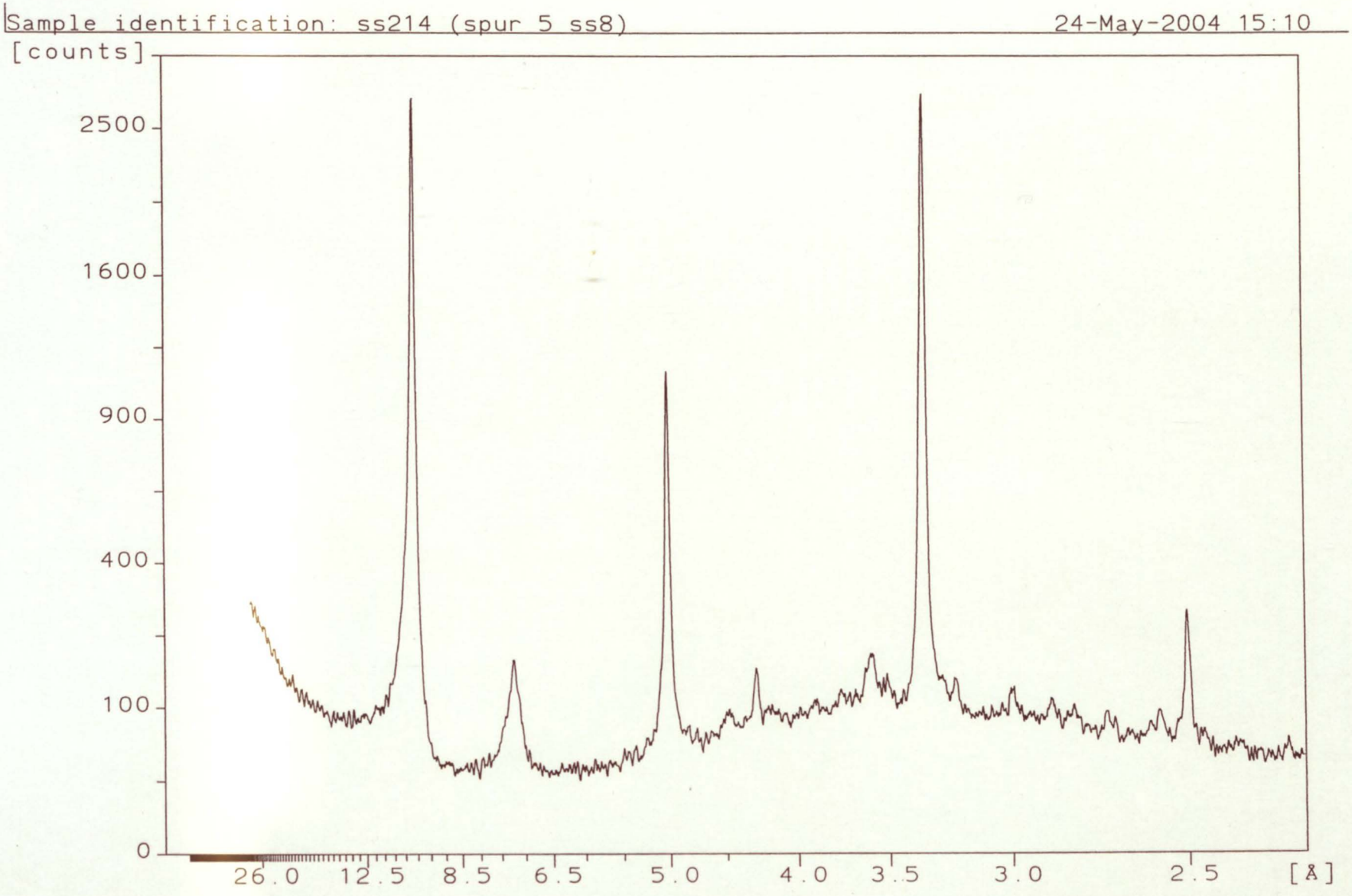
A94

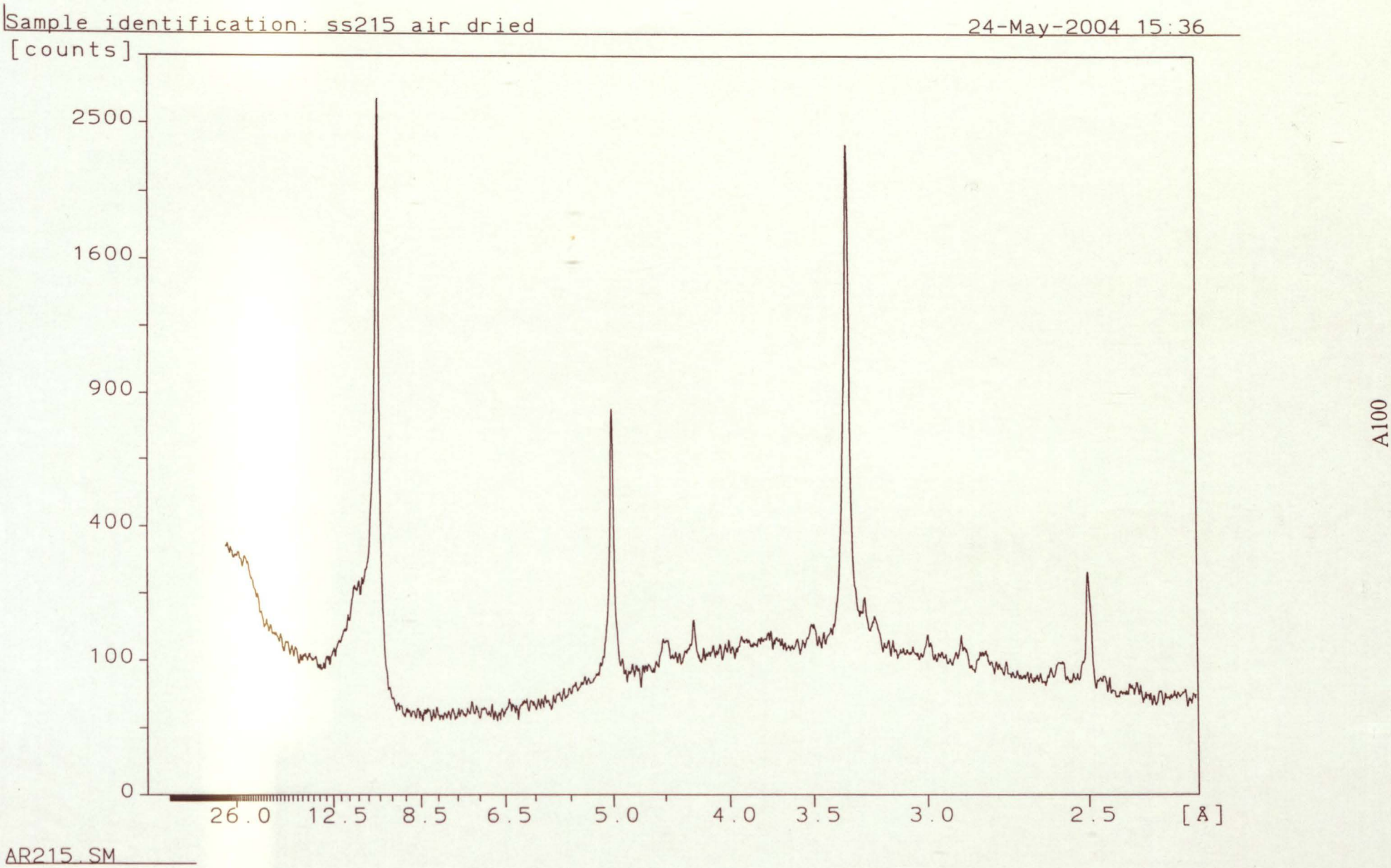

Sample identification: ss210 air dried
24-May-2004 15:36
2025
[counts]
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR210.SM

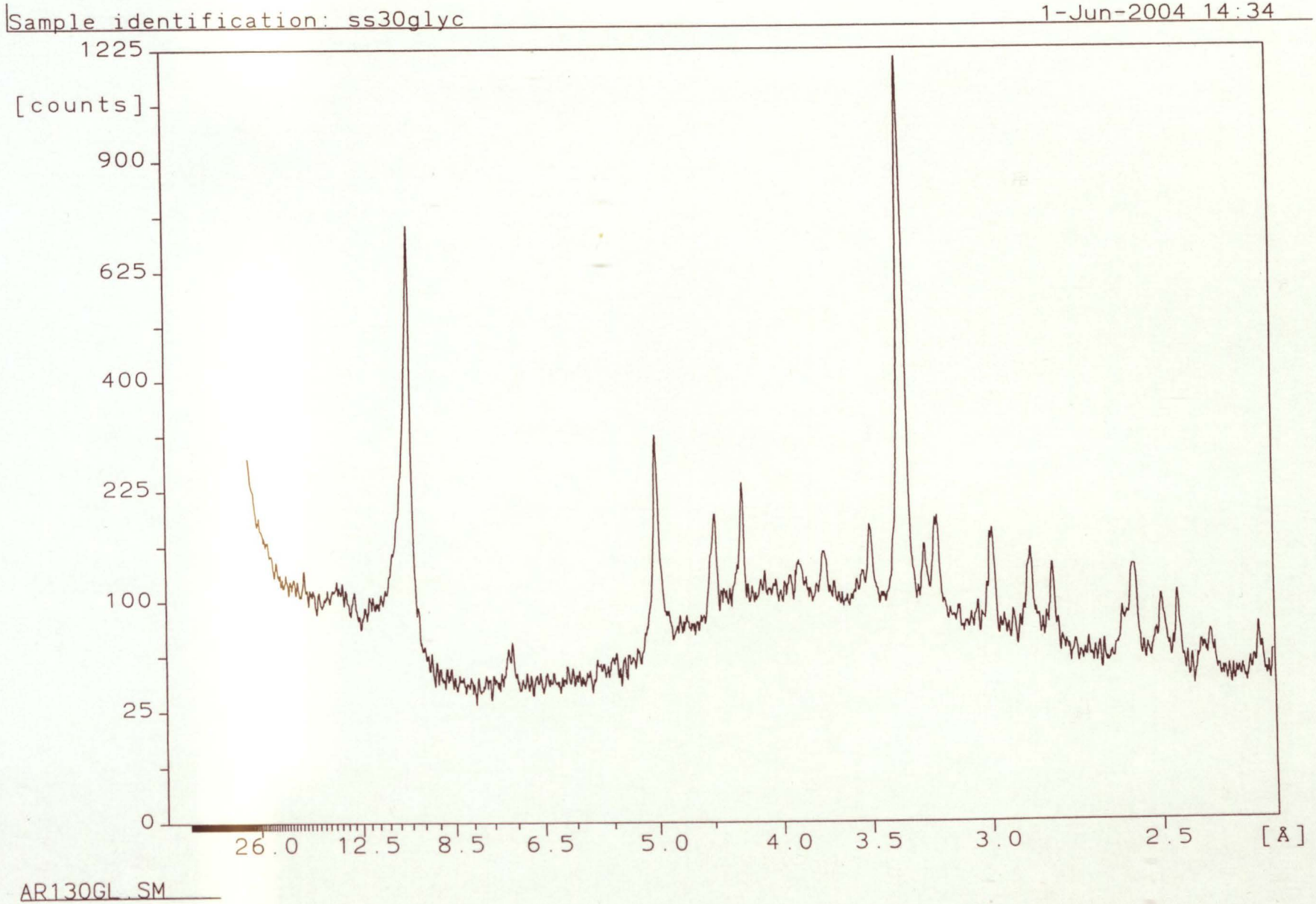

Sample identification: ss211 (spur 1 ss7)
24-May-2004 15:11
1600
[counts]
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR211.SM


Sample identification: ss212 (spur 5 ss3)
24-May-2004 15:10
1600
[counts]
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR212.SM


Sample identification: ss213 (spur 5 ss7)
24-May-2004 15:10
900
[counts]
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR213.SM


Sample identification: ss214 (spur 5 ss8)
24-May-2004 15:10
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR214.SM

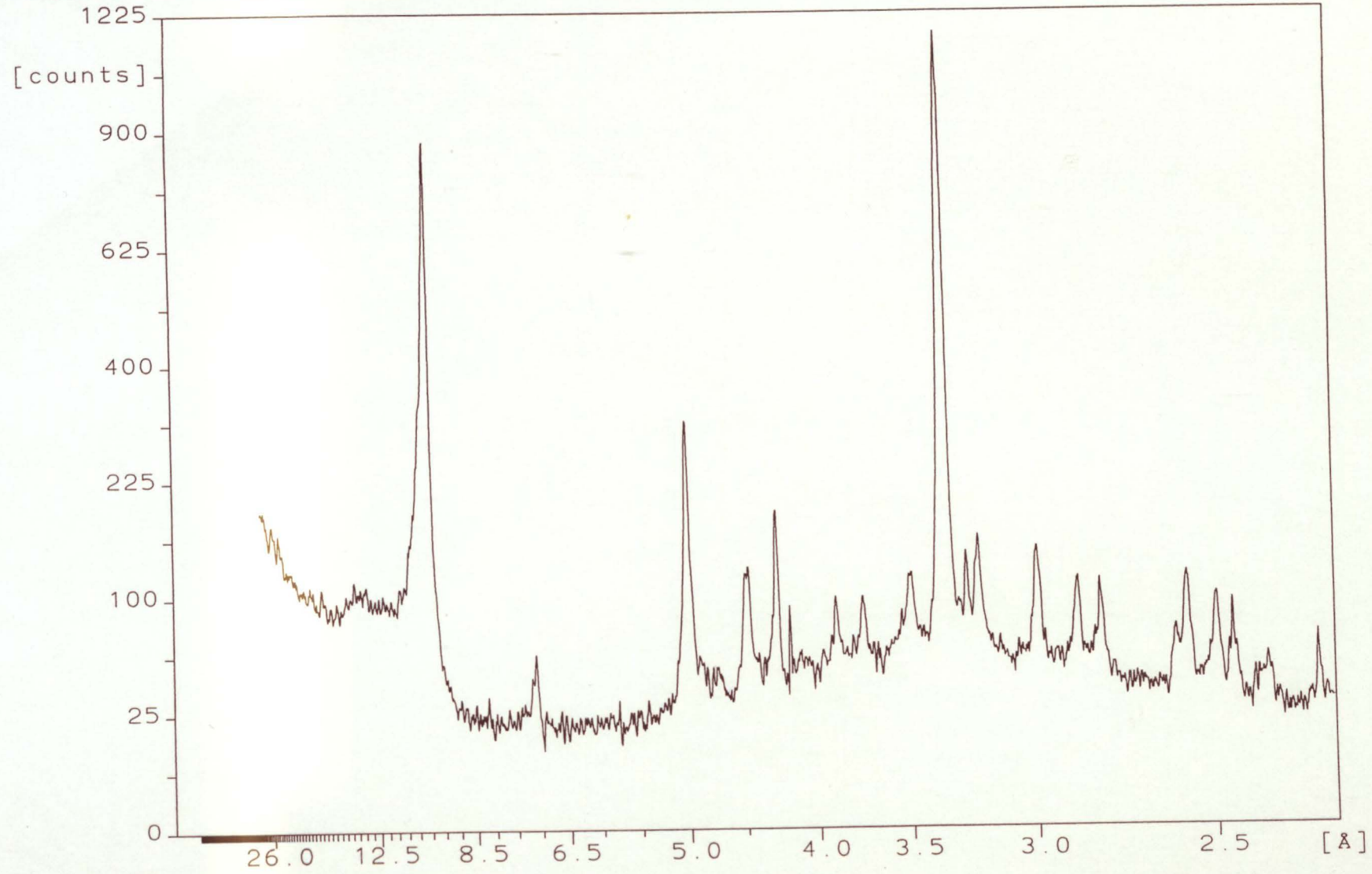

Sample identification: ss215 air dried
24-May-2004 15:36
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR215.SM
A100


Sample identification: ss30glyc
1-Jun-2004 14:34
1225
[counts]
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR130GL.SM

A101

Sample identification: ss30ht300

1-Jun-2004 14:15

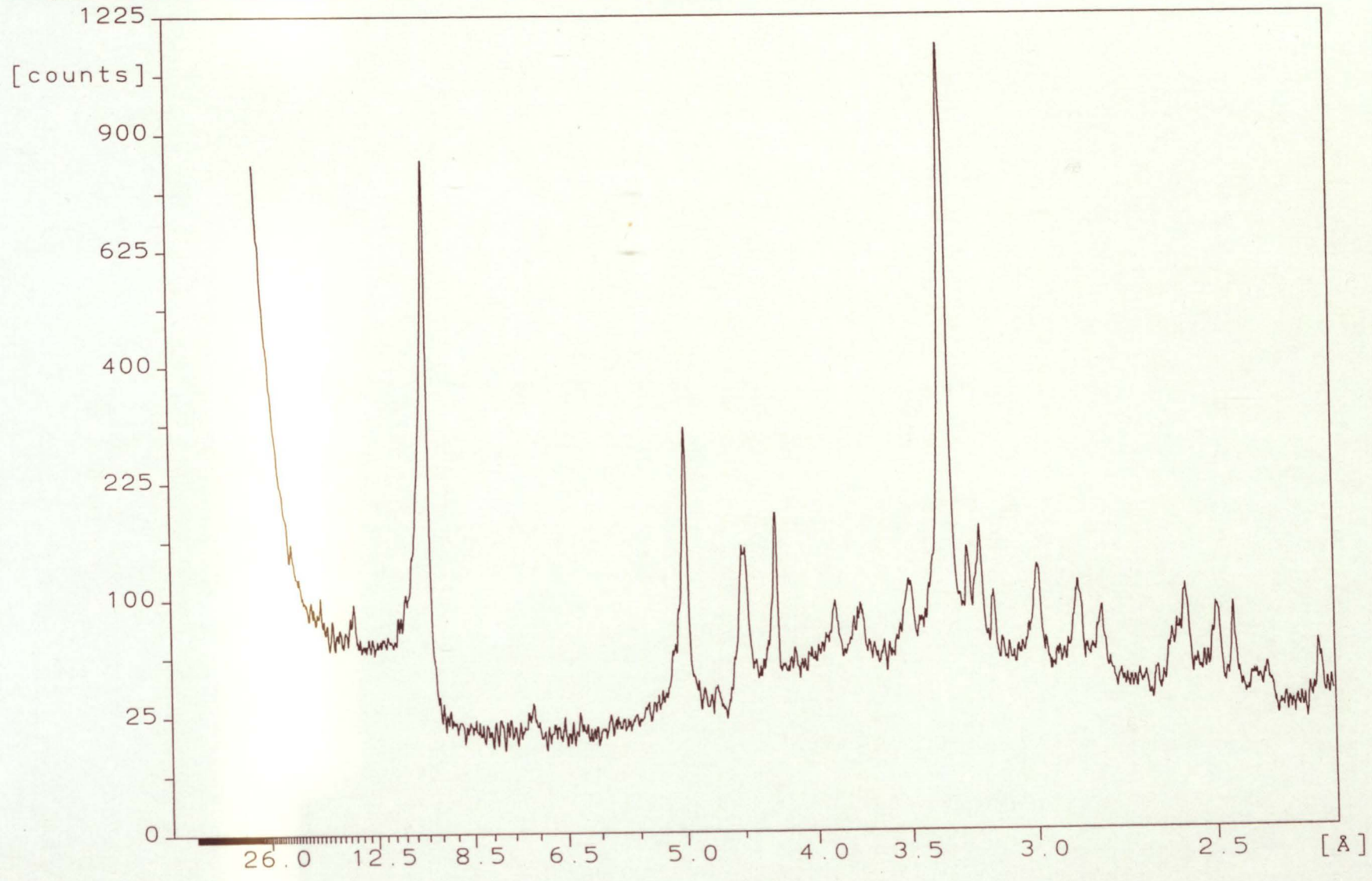


AR130HT3.SM

A102

Sample identification: ss30 ht500

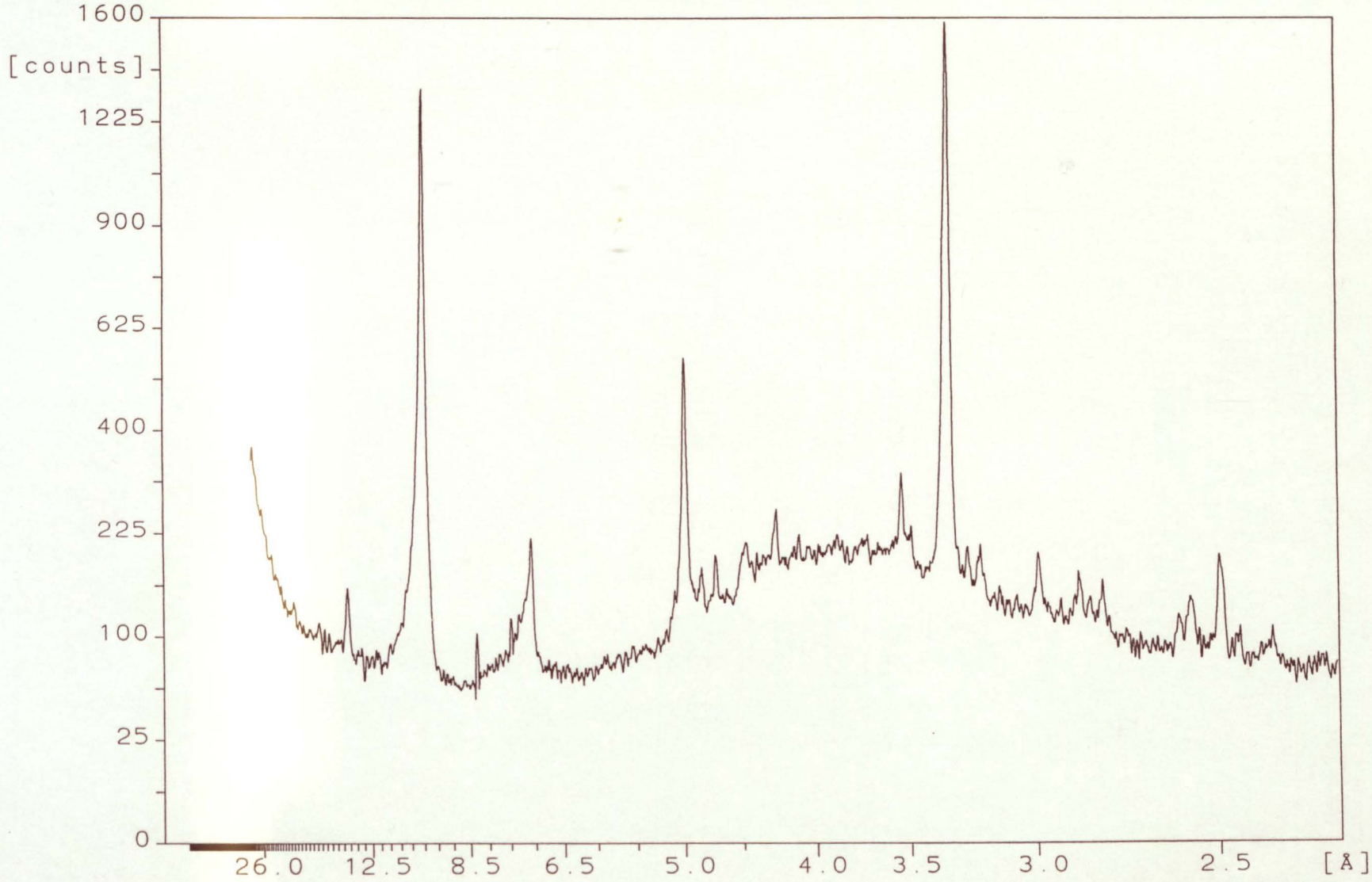
1-Jun-2004 14:15



A103

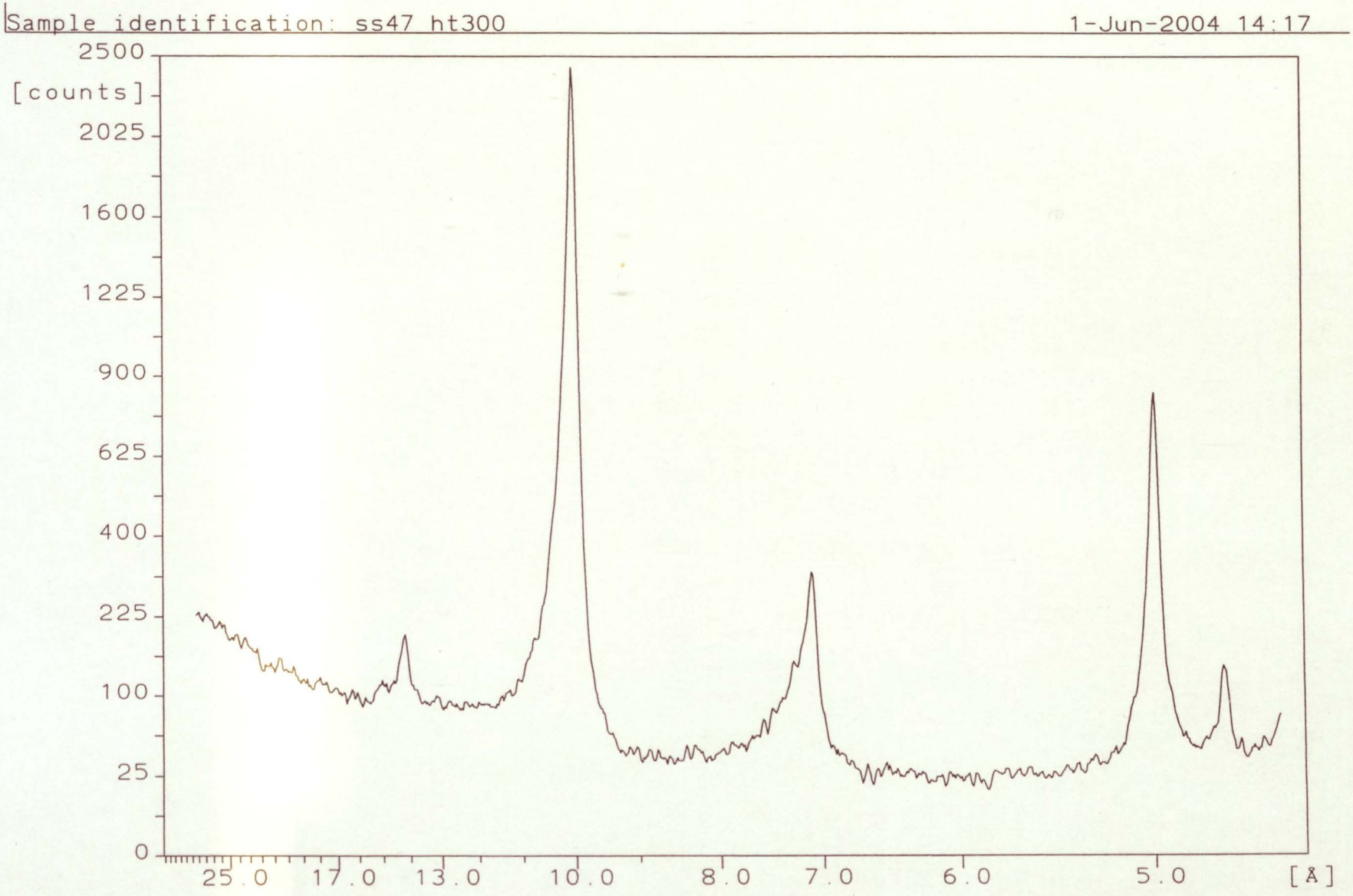
AR130HT5.SM

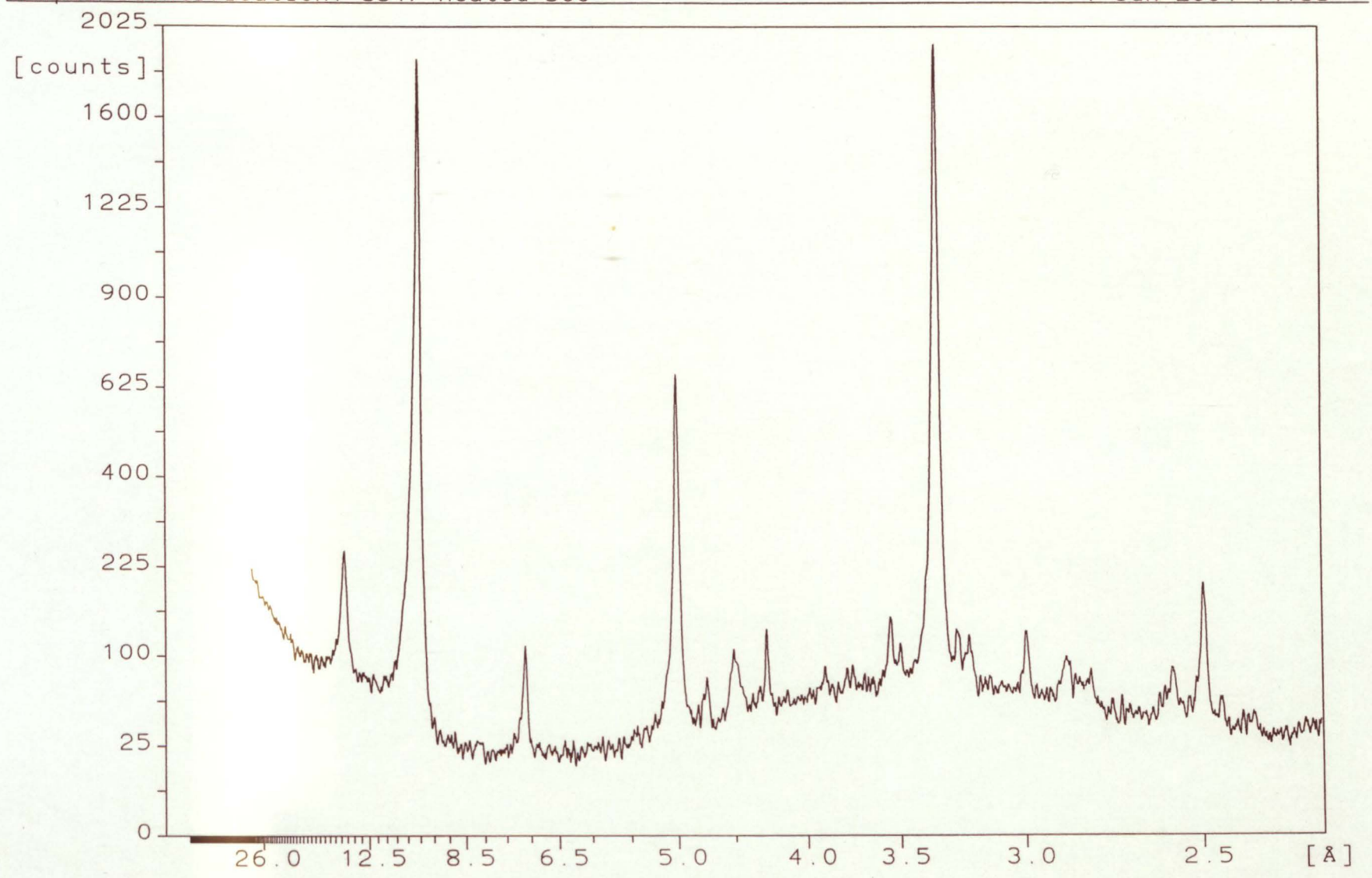
Sample identification: ss47 glycol 1-Jun-2004 14:16

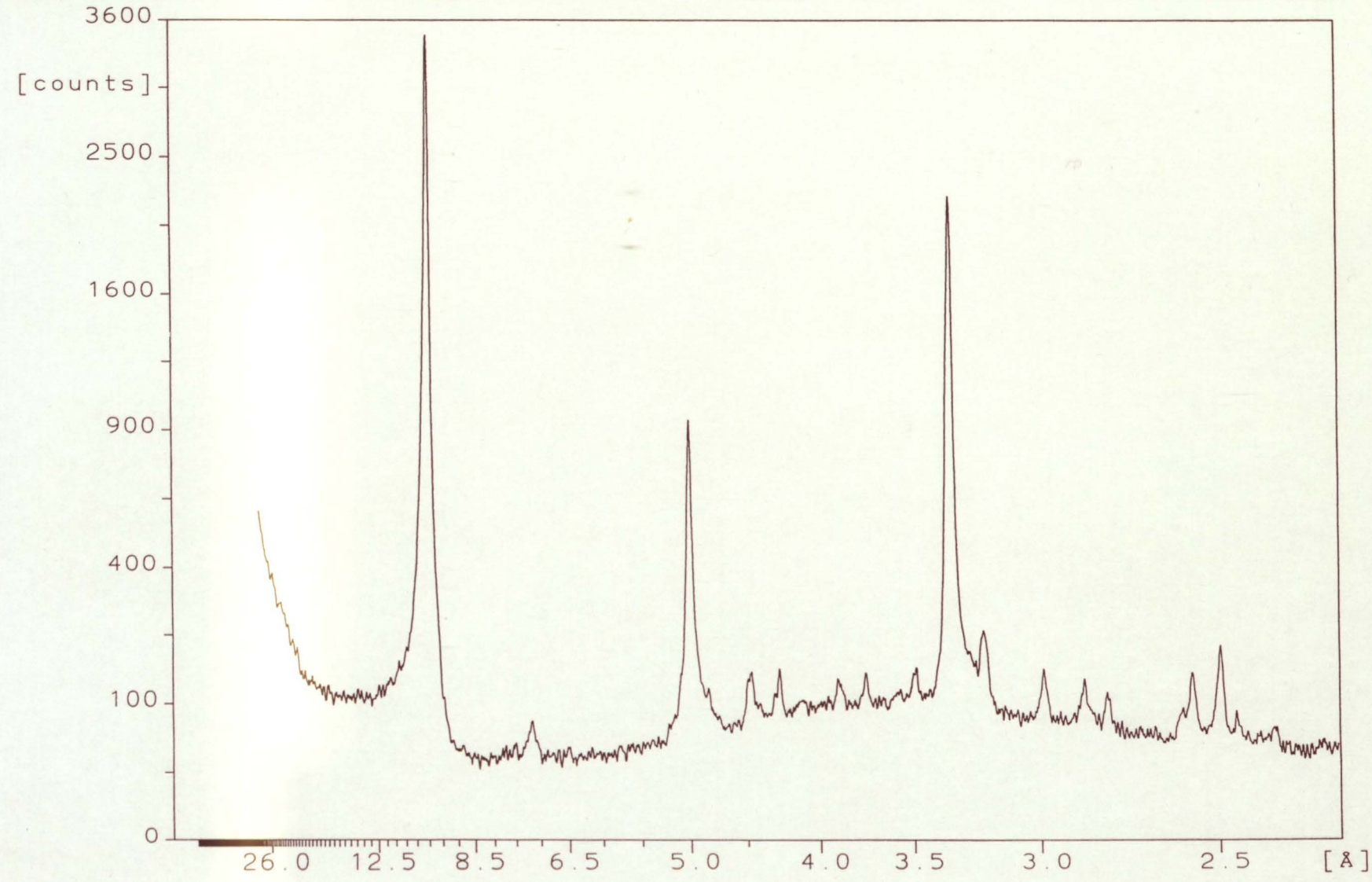


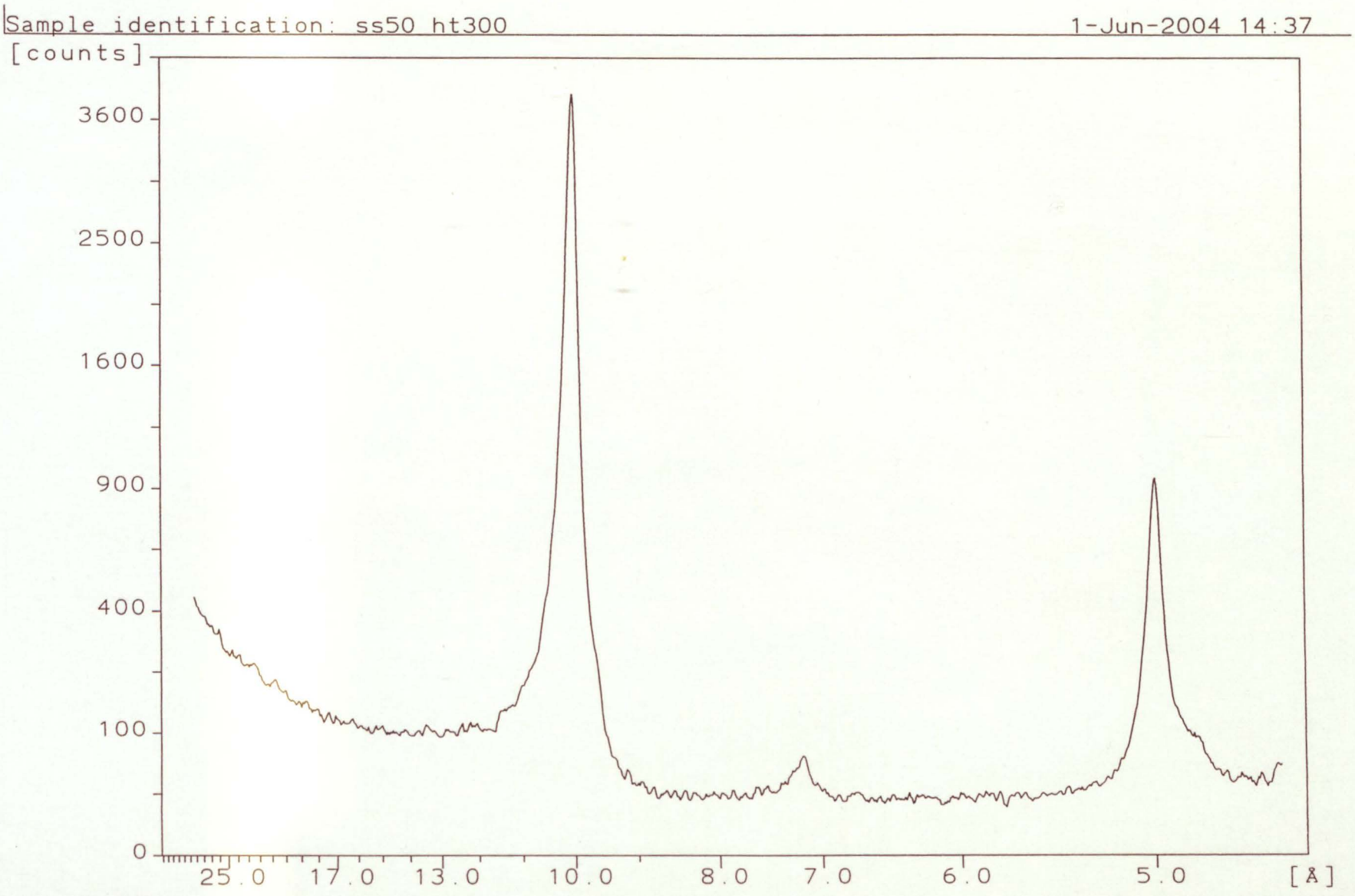
AR147GL.SM

A104

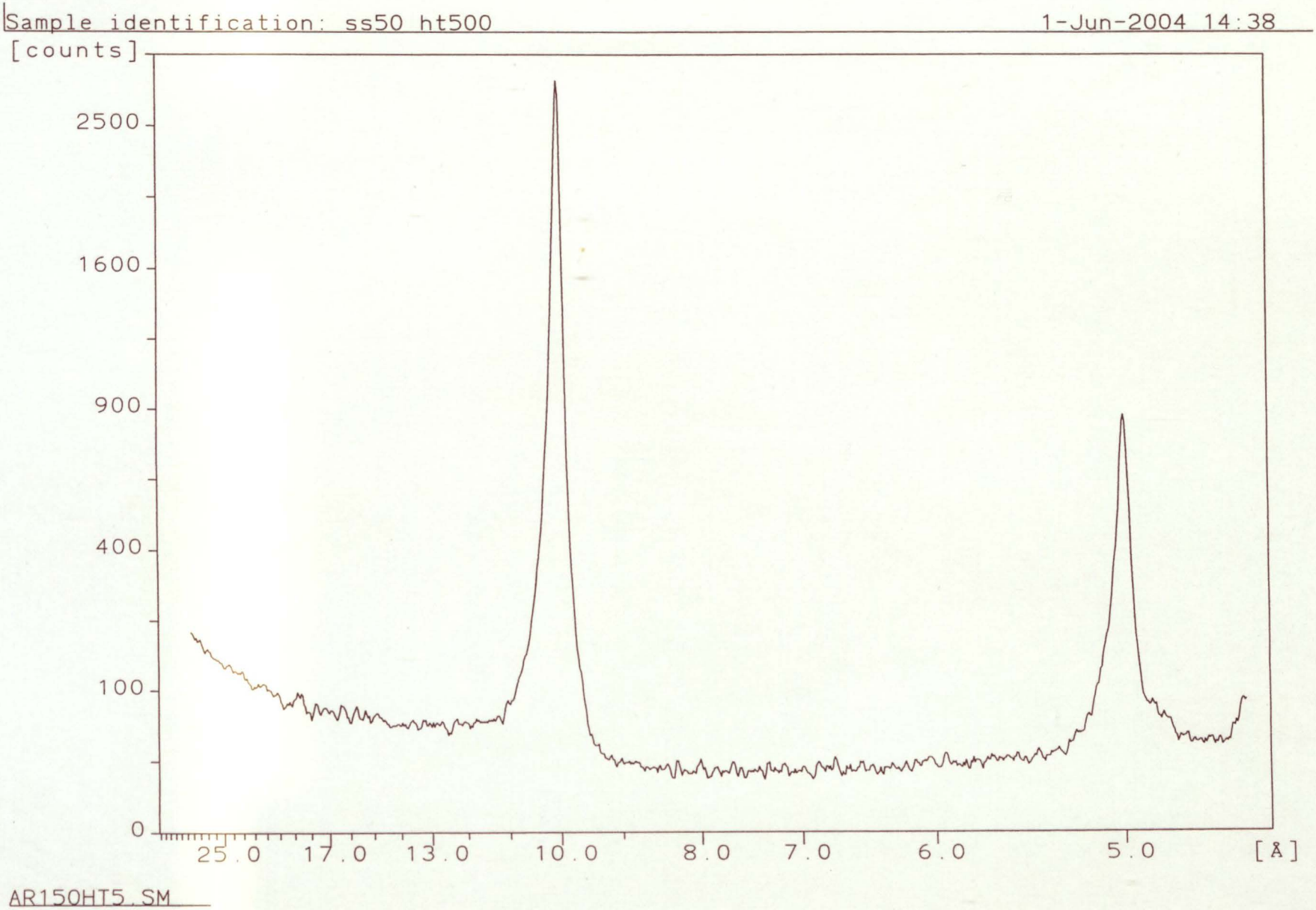

Sample identification: ss47 ht300
1-Jun-2004 14:17
2500
[counts]
2025
1600
1225
900
625
400
225
100
25
0
25.0
17.0
13.0
10.0
8.0
7.0
6.0
5.0
[Å]
AR147HT3.SM


Sample identification: ss47 heated 500
1-Jun-2004 14:38
2025
[counts]
1600
1225
900
625
400
225
100
25
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR147HT5.SM


Sample identification: ss50 glycolated
1-Jun-2004 14:17
3600
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
AR150GL.SM


Sample identification: ss50 ht300
1-Jun-2004 14:37
[counts]
3600
2500
1600
900
400
100
0
25.0
17.0
13.0
10.0
8.0
7.0
6.0
5.0
[Å]
AR150HT3.SM

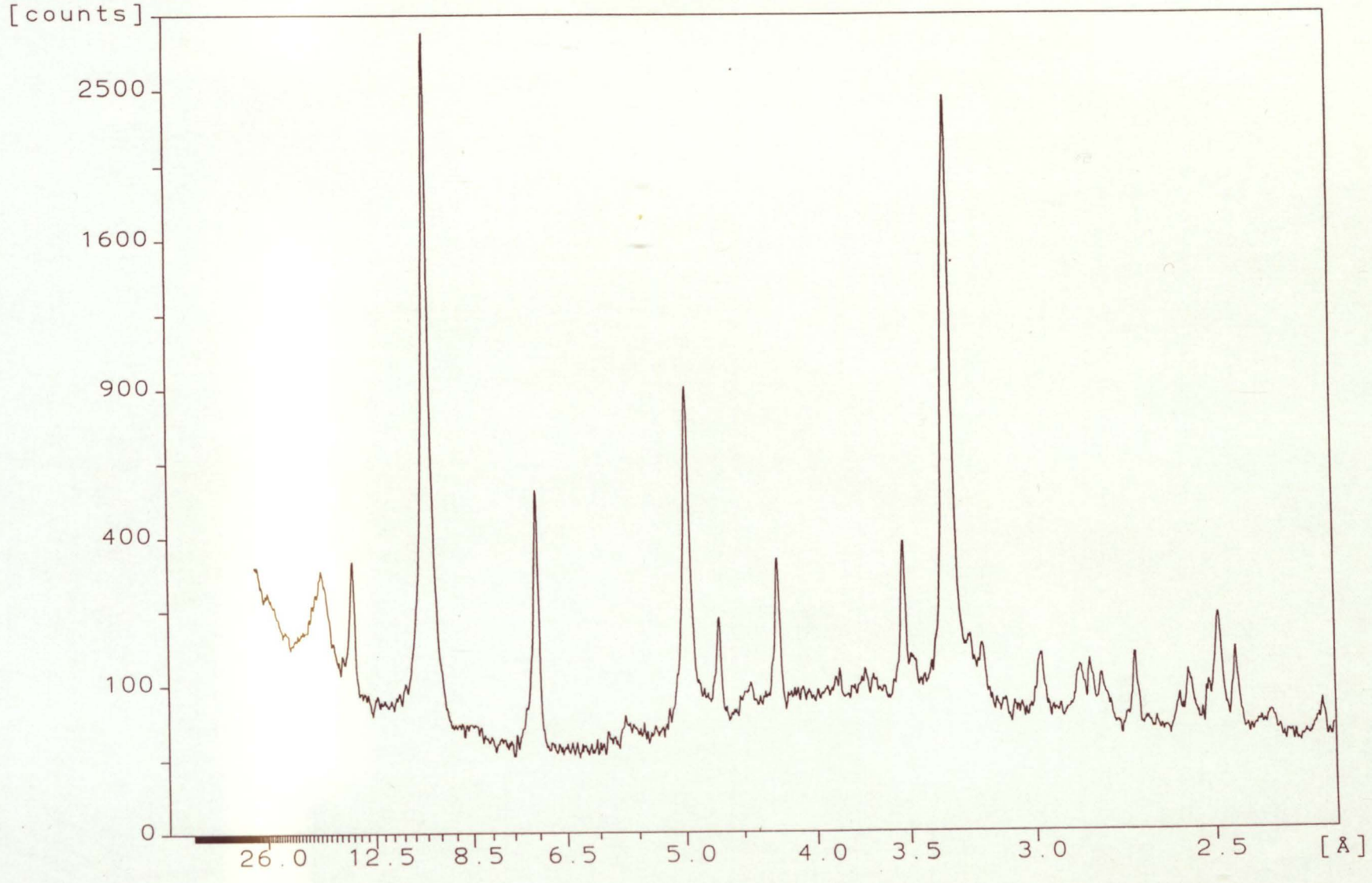
A108


Sample identification: ss50 ht500
1-Jun-2004 14:38
[counts]
2500
1600
900
400
100
0
25.0
17.0
13.0
10.0
8.0
7.0
6.0
5.0
[Å]
AR150HT5.SM

A109

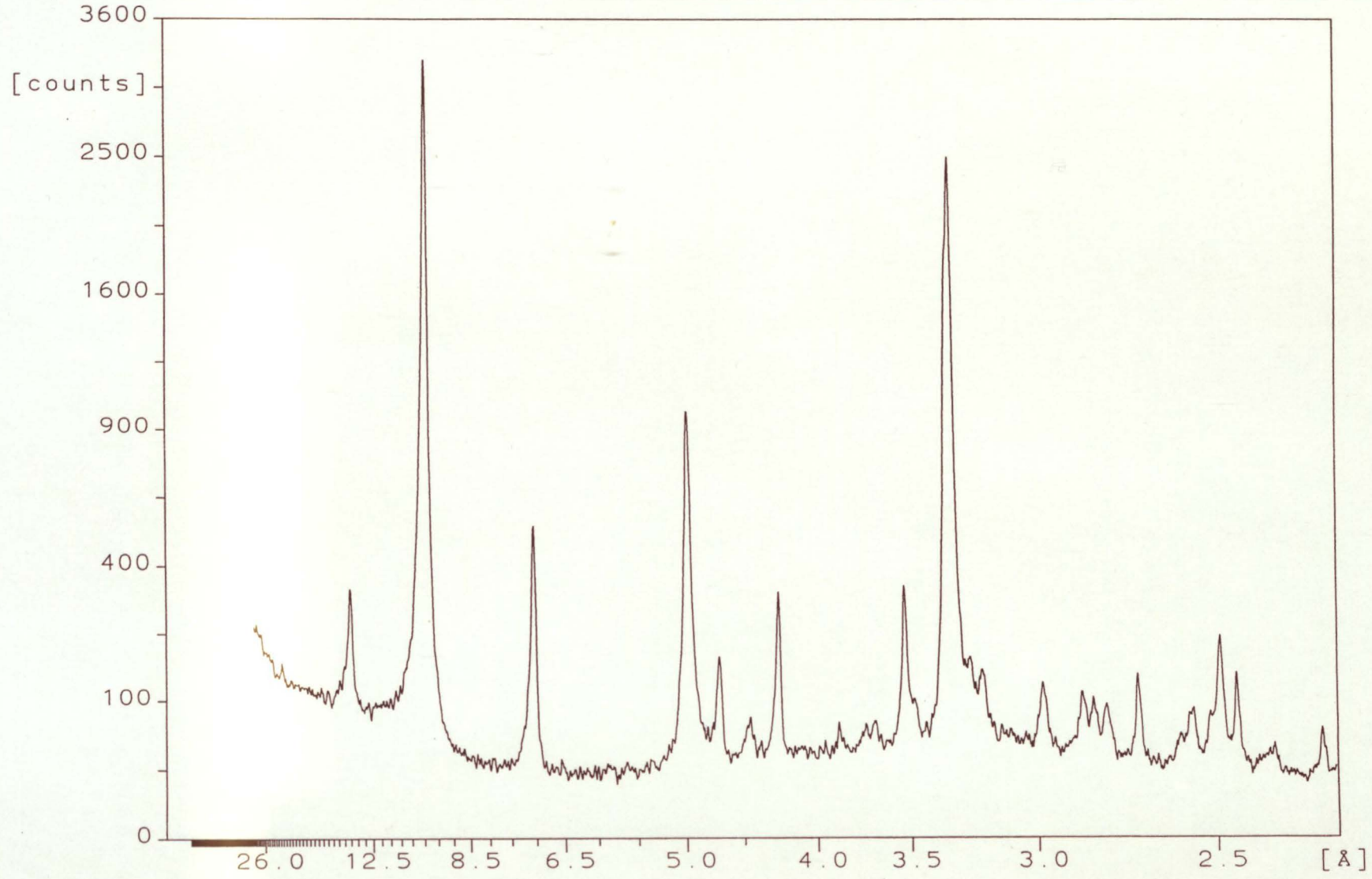
Sample identification: sct1 glyc

1-Jun-2004 14:41

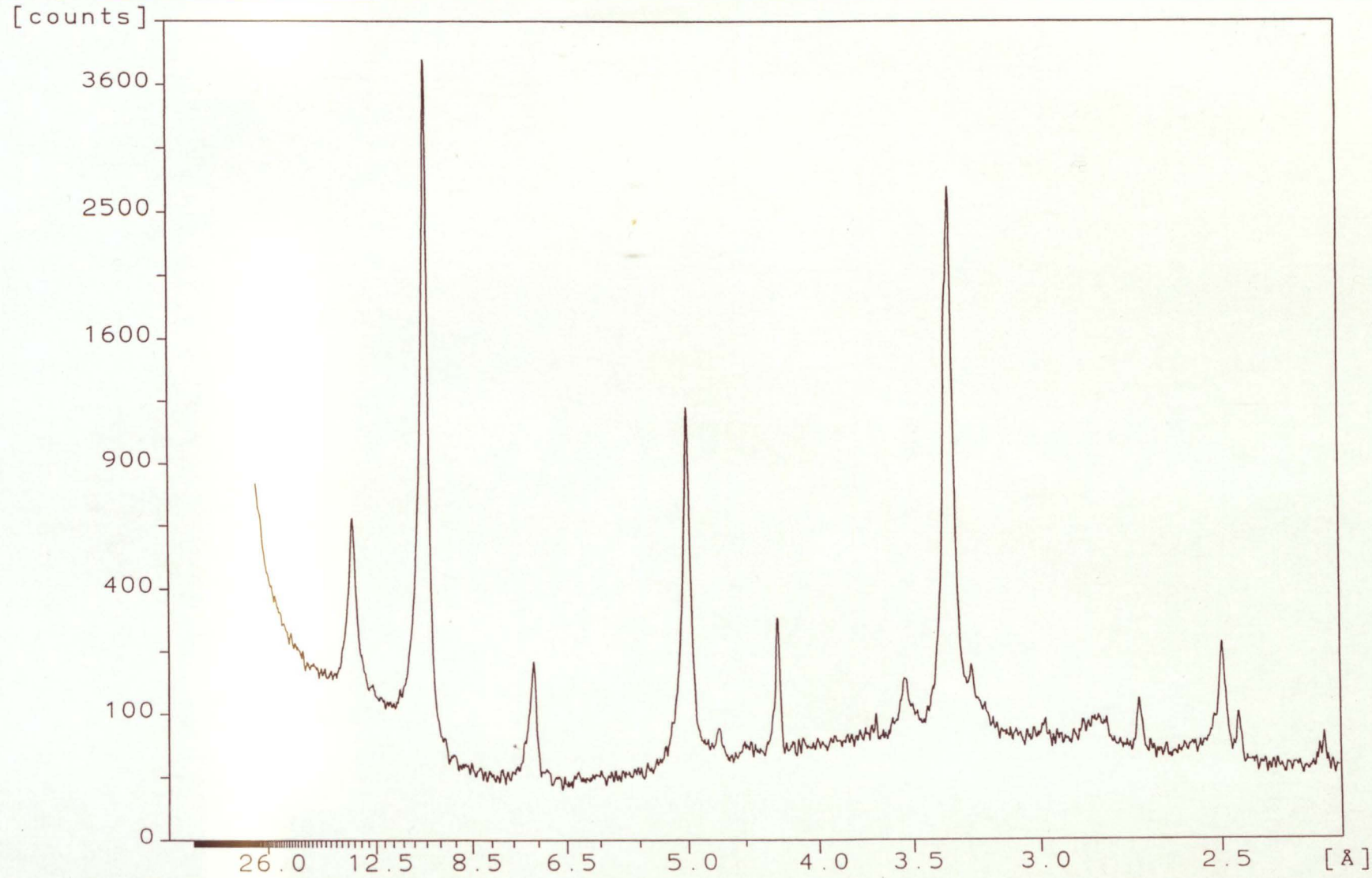


A110

SCT1GL.SM


Sample identification: sct1 ht300
1-Jun-2004 14:41
3600
[counts]
2500
1600
900
400
100
0
26.0
12.5
8.5
6.5
5.0
4.0
3.5
3.0
2.5
[Å]
SCT1HT3.SM

Sample identification: sct1 ht500 1-Jun-2004 14:42



SCT1BHT5.SM

A112